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LIST OF ERRATA

Volume.	Year.	Page.	Line.	Correction.
51.	1926.	75. 395.	Footnote. 11 from bottom.	In both formulae for "23.5" read "0.235." For "chloroiridate" read "chloroiridite."
52.	1927.	272. 359. 459. 459. 669. 670. 711.	9 from top. 4 from bottom. 14 from top. 17 from top. 3 from bottom. 6 from bottom. 11 from bottom.	For "25 grms. of marble" read "5 grms. of marble." For "1925" read "1924." For "1926, 51" read "1927, 52." For "Bagnal" read "Bagnall." For "1" read "2." For "1" read "2." For "106" read "206."
53.	1928.	159. 187. 226. 291. 331. 337. 455. 456.	4 from bottom. 5 from top. para. 5. 6 from top. 12 from top. 8 from bottom. 8 from top.	For "49.0" read "47.90." For "Liq. Bismuthi, B.P.j" read "Liq. Bismuthi, B.P. 3j." Delete the comma after "and", and insert the word "except" before "during such times." In the abstract on halibut oil the iodine value, 16, refers to the solid, not to the liquid fatty acids. For "alkaline to methyl orange and phenolphthalein" read "alkaline to methyl orange but acid to phenolphthalein." For "PisioI" read "Pinot." For "action" read "cation." For "Ca" read "Ga."
54.	1929.	63. 80. 366. 367. 368. 370. 485.	17. 26 in the table. 2 from bottom. 6 from bottom. 7 from bottom. 13 from top. 3 from bottom.	For "sodium sulphate" read "sodium sulphide." For "Iodine value of solid fatty acids, 101.5" read "10.15." For "1133-1141" read "181-189." For "73-81" read "324-333." For "1121-1132" read "169-180." For "975-994" read "23-42." Throughout the abstract for "menthone" read "methone."
	1930.	607.	8 from bottom.	For the sentence beginning "A solution of 6 grms. of citric acid. . ." read "A solution of 2 grms. of citric acid in 10 c.c. of water is made slightly alkaline to phenolphthalein with sodium hydroxide solution, boiled, 4 grms. of citric acid are added and the mixture is added to the hot extract. . ."
55.	1930.	262. 300. 349. 371. 504. 747.	Plate facing. Last abstract. 6 from bottom. 18 from bottom.	The description of Fig. 2 should read "Film preparation of 'ropy' bread," as in text on p. 261. Reverse the extraction apparatus. For "cystine" read "cystisine" throughout the abstract. For "iron" read "phosphorus." For the signature "A. J. Linsey" read "A. J. Lindsey." For "Bromphenol" read "Bromthymol."
56.	1931.	21. 134. 250. 276. 296. 303. 334. 334. 397. 421.	7 from top. 15 from top. 21 from top. 34 from top. 15 from top. 4 from top. 5 from bottom. 4 of the note. 19 from top.	For "1925" read "1926." For "22" read "20." For "2 per cent." read "10 per cent." For "27.30" read "27.83." For "0.2 mgrm." read "0.2 grm." The legends beneath the lower block should be reversed: "C" represents silver salicylate; "D" silver benzoate. For "ClO ₃ " read "KClO ₃ ." For "determined from the data . . ." read "determined. From the data. . ." The reference to Lerrigo should read "1930, 433" and not "1931, 433." For "Lamy" read "Lémy."

Volume.	Year.	Page.	Line.	Correction.
		508.	4 from top.	For "L. Marks" read "S. Marks.
		632.	15 from bottom.	For "that more than traces of tannin are present" read "that not more than traces of tannin are present."
57.	1932.	337.	23 from top.	For "69.30" read "3.465."
		377.	Third column of first table.	For "Average error per cent." read "Average error per cent. in reading."
		570.	20 from top.	For "Gallenkamp" read "Baird & Tatlock"
57.	1932.	571.	7 from bottom.	For "acidity of" read "acidity and."
		650.	3 from bottom.	Add to the reagents required: "2N sodium hydroxide solution (approximate)."
		651.	3 from bottom.	For "add N/2 sodium hydroxide solution" read "add 2N and, towards completion, N/2 sodium hydroxide solution."
58.	1933.	29.	5 from bottom.	For "Chambers" read "Chalmers."
		374.	8 from top.	For "30s." read "36s."
		424.	19 from bottom.	The amount of anhydrous carbonate in the copper solution <i>should be</i> "15 grms." <i>instead of</i> "1.5 gm." The strength of the iodine and thiosulphate solutions <i>should be</i> "N/110" <i>not</i> "N/100."
		430.	Second column of figures.	For "27.10 and 10.13" read "24.10 and 27.13."
59.	1934.	127.	13 from top.	The figure referred to is Fig. 2 (not Fig. 1) in the original paper.
		154.	3 from top.	For "200 mgrms." read "300 mgrms."
		244-247.		In the tables the expression "Mean 1.25SD Mean 2SD" <i>should read</i> "Mean minus 1.25SD Mean minus 2SD."
		801.	Last line.	The sentence beginning in the last line <i>should read</i> "If we take, for example, a 12-stone man who has 100 p.p.m. of lead in his bones, he will have in his whole skeleton 1.5 grms. (23 grains) of lead (as Pb), or 2.9 grms. (31 grains) of lead phosphate, $Pb_3(PO_4)_2$."
		828.	12 from top.	For "250 ml." read "25 ml."
		854.	7 from bottom.	For "years" read "yards."
60.	1935.	239.	Last line of Table II.	For "6 x 6 ml. H ₂ O wash" read "6 x 10 ml. wash."

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- Ashworth, J. R.** Apparatus for recording the ultra-violet light of the sky, 1931, 557.
- Askew, F. A., Bruce, H. M., and Others.** Crystalline vitamin D, 1932, 54.
- Aston, B. S.** Report of the Chief Chemist, Department of Agriculture, New Zealand, for the year 1932, 1934, 40; for the year 1933-34, 1934, 825.
- Aston, J. G.** See Conant, J. B.
- Astrey, A., Mousseron, M., and Boisson, N.** New micro-determination of calcium, 1930, 297.

- Astruc, and Castel.** Determination of tannin in wine, 1933, 411.
- Astruc, and Mousseron, M.** Formation and determination of essential oil of mustard in mustard flour, 1927, 353.
- Atack, F. W.** The Chemists' Year Book (Review), for 1926, 1926, 322; for 1927, 1927, 498; for 1928, 1928, 618; for 1929, 1929, 563; for 1931, 1931, 622.
- Atkin, W. R.** Measurement of the "acidity" of vegetable-tanned leather by the acetone method, 1935, 491.
- Atkin, W. R., and Burton, D.** Determination of magnesia hardness in water, 1927, 654.
- Atkin, W. R., and Thompson, F. C.** Acidity of vegetable-tanned leather, 1933, 110.
- Atkins, W. R. G.** The determination of zinc in water by means of sodium diethyldithiocarbamate, 1935, 400.
- Atkins, W. R. G., and Pantin, C. F. A.** Buffer mixture for the alkaline range of hydrogen ion concentration determinations, 1926, 317.
- Atkins, W. R. G., and Wilson, E. G.** Colorimetric determination of minute amounts of compounds of silicon, of phosphorus, and of arsenic, 1927, 249.
- Phosphorus and arsenic compounds of seawater, 1927, 427.
- Atkinson, H.** Some barium values of the butter-fats of different animals, 1934, 481.
- The determination of arsenic in tartar emetic, 1934, 400.
- The fatty acids of Egyptian butter-fats, 1928, 520.
- The volumetric determination of sulphates by means of barium chloride and potassium stearate, 1926, 81.
- Thiocyanogen values of some Egyptian sesame and cotton-seed oils, 1934, 399.
- Titration of ammonium sulphate by the stearate method, 1926, 140.
- Atsuki, and Kawawa, I.** Determination of acetic acid in cellulose acetate, 1933, 564.
- Atix, J. C.** A Handbook of Elementary Chemistry (Review), 1928, 307.
- Aubert, M., and Aubrée, E.** Extension of the method of critical solution temperatures for the analysis of petroleum spirit, 1926, 269.
- Aubrée, E.** See Aubert, M.
- Auden, H. A.** Sulphuric Acid and its Manufacture (Review), 1931, 493.
- Audidier, H.** See Taboury, M. F.
- Audiffren, M.** Colour reaction of mono-carboxylic chrysanthemic acid (from the hydrolysis of pyrethrin I), 1934, 556.
- Aufrecht, —.** Distinction between pressed and extracted cacao butter, 1929, 346.
- Augusti, A.** Rapid and exact method for the determination of mercury, 1935, 842.
- Ault, W. C., and Brown, J. B.** Chemistry of arachidonic acid and its quantitative determination, 1935, 115.
- Austen, W.** Identification of urine in water, 1926, 210.
- Austerweil and Lemay.** Volumetric determination of potassium, 1932, 126.
- Austin, R. G.** Aids to Qualitative Inorganic Analysis, 1934, 584.
- Austin, S., and Riley, H. L.** Determination of copper with salicylaldehyde, 1933, 366.
- Autenrieth, W.** Laboratory Manual for the Detection of Poisons and Powerful Drugs (Review), 1929, 126.
- Autié, G.** Volumetric determination of cerium, 1928, 113.
- Avent, A. G.** Classification of cocoa butter and its substitutes by the freezing-point method, 1930, 477.
- The freezing-point method for the examination of cocoa butter, 1931, 180.
- Averill, H. P., and King, C. G.** Phytin content of foodstuffs, 1926, 252.
- Avery, B. F., and Hastings, A. B.** Gasometric method for the determination of lactic acid in the blood, 1932, 50.
- Avery, S.** Carbon and hydrogen determinations with the use of a metal tube, 1929, 66.
- Axtmayer, J. H.** See Sherman, H. C.
- Aykroyd, W. R.** Three Philosophers (Lavoisier, Priestley and Cavendish) (Review), 1935, 502.
- Vitamin B₂ content of cereals and the supposed connection between human pellagra and deficiency of this vitamin, 1931, 56.
- Vitamins and Other Dietary Essentials (Review), 1933, 428.
- Azadian, A.** Les Eaux d'Egypte. Vol. I, 1931, 282. Vols. XII and XIII, 1931, 698.
- Azern and Guillot.** Detection of diacetyl in fats to which butter flavours have been added, 1933, 42.

B

- Babitsch, S.** Volumetric determination of sodium glycerophosphate, 1935, 627.
- Babko, A. K.** See Tananaeff, N. A.
- Bacharach, A. L.** Review of Atack's *The Chemists' Year Book*, 1931, 1931, 622.
- Review of Aykroyd's *Three Philosophers (Lavoisier, Priestley and Cavendish)*, 1935, 502.
- Review of Aykroyd's *Vitamins and Other Dietary Essentials*, 1933, 428.
- Review of Bodansky's *Introduction to Physiological Chemistry*, 3rd Ed., 1934, 851.
- Review of Browning's *The Vitamins*, 1932, 132.
- Review of Clark's *Applied Pharmacology*, 1932, 351.
- Review of Cole's *Practical Physiological Chemistry*, 7th Ed., 1926, 273; 9th Ed., 1934, 143.
- Review of Durrans's *Solvents*, 2nd Ed., 1931, 695; 3rd Ed., 1934, 307.
- Review of Fearon's *Introduction to Biochemistry*, 1934, 372.
- Review of Greenman and Duhring's *Breeding and Care of the Albino Rat for Research Purposes*, 2nd Ed., 1932, 680.
- Review of McClelland's *Manual of Biochemistry*, 1934, 851.
- Review of Morton's *The Application of Absorption Spectra to the Study of Vitamins and Hormones*, 1935, 724.
- Review of Sure's *The Vitamins in Health and Disease*, 1933, 650.
- Review of *Vitamins: A Survey of Present Knowledge*, 1933, 121.

- Bacharach, A. L.** Structural formula of ergosterol, 1933, 605.
 — Vitamin A content of ghee, 1930, 589.
 — See also Jephcott, H.
- Bacharach, A. L., and Allchorne, E.** The vitamin B content of malt extract, 1928, 393.
- Bacharach, A. L., and Grinling, G. N.** Presence of blue mineral colouring matter in "pure" gelatin, 1930, 566.
- Bacharach, A. L., and Hartwell, G. A.** A note on technique in testing for vitamin B, 1927, 145.
- Bacharach, A. L., and Hunwicke, R. F.** Review of Gardner's *Microbes and Ultramicrobes*, 1932, 414.
- Bacharach, A. L., and Smith, E. L.** The chemical evaluation of the vitamins, 1934, 70.
- Bacharach, A. L., Cook, P. M., and Smith, E. L.** Ascorbic acid content of certain citrous fruits and some manufactured citrous products, 1934, 709.
- Bacharach, A. L., Smith, E. L., and Stevenson, S. G.** Some properties of ergosterol and calciferol, 1933, 128.
- Bachem, A.** See Boor, A. K.
- Bachmann, W. E.** Reduction of aromatic ketones and benzils by triphenylmagnesium bromide, 1931, 683.
- Bachstsz, M.** Constitution of ototic acid, 1930, 453.
- Back, S.** The determination of carbon dioxide in carbonates, 1927, 76.
- Backer, H. J., and Klassens, K. H.** Determination of lanthanum, 1930, 650.
- Backus, H. S.** See Swift, E. H.
- Bader, W.** See Burford, W. A.
- Badger, C. H., and Sale, J. W.** Determination of acidity of highly coloured fruit-type products, 1926, 583.
- Baernstein, H. D.** Determination of methionine in proteins, 1932, 728.
 — Gasometric determinations of cysteine and cystine, 1931, 124.
- Bagchi, K. N.** Report of Chemical Analyst for Bihar and Orissa for the year 1929, 1930, 393.
 — See also Bose, A. C.
- Bagnall, D. J. T.** Appointed additional Public Analyst for the County Borough of Kingston-upon-Hull, 1933, 29.
 — See also Tankard, A. R.
- Bagnall, H. H.** Measurement of the strength of sunlight, 1929, 101.
 — Report of the City Analyst for Birmingham for the Third Quarter of 1929, 1930, 38; Fourth Quarter of 1929, 1930, 193; Annual Report for 1929, 1930, 446; for the Second Quarter of 1930, 1930, 569; Third Quarter of 1930, 1931, 30; Fourth Quarter of 1930, 1931, 312; Annual Report for 1930, 1931, 598; for the First Quarter of 1931, 1931, 655; Second Quarter of 1931, 1931, 740; Third Quarter of 1931, 1932, 29; Fourth Quarter of 1931, 1932, 245; Annual Report for 1931, 1932, 779; for the First Quarter of 1932, 1932, 519; Third Quarter of 1932, 1933, 33; Fourth Quarter of 1932, 1933, 224; Annual Report for 1932, 1933, 609; for the First Quarter of 1933, 1933, 399; Second Quarter of 1933, 1933, 687; Third Quarter of 1933, 1934, 30; Fourth Quarter of 1933, 1934, 122; Annual Report for 1933, 1934, 622; for the First Quarter of 1934, 1934, 538; Second Quarter of 1934, 1934, 751; Third Quarter of 1934, 1935, 35; for the Fourth Quarter of 1934, 1935, 243; for the year 1934, 1935, 553; for the Second Quarter of 1935, 1935, 820.
 — Report of the City Analyst for Salford for the year 1926, 1927, 640; for the year 1927, 1928, 646; for the year 1928, 1929, 740.
 — The extraction of quinine, 1934, 277.
- Bahadur, M. A.** Report of the Acting Chemical Examiner for Madras for 1929, 1930, 693.
- Bailey, C. H.** The Chemistry of Wheat Flour (Review), 1926, 114.
 — See also Ferrari, C. G.
- Bailey, E. H., and Bailey, H. S.** Food Products, Their Source, Chemistry and Use, 1929, 130.
- Bailey, E. M.** Connecticut Agricultural Experiment Station, 36th Report on Food Products, 1931, 1933, 285.
 — Report of the Connecticut Agricultural Experimental Station for the year 1928, 1930, 129.
 — See also Fisher, H. J.
- Bailey, H. S.** See Bailey, E. H.
- Bailey, K., and Norris, F. W.** Nature and composition of the mucilage of the seed of white mustard (*Brassica alba*), 1933, 100.
- Bailey, L. H.** See Hertwig, R.
- Bailey, W. F.** See Adams, J.
- Bailly, O., and Netter, R.** Isolation of carotene from the suprarenal glands, 1932, 52.
- Bain, W.** The Pharmacological Action of the Harrogate Drinking Waters, 1935, 130.
- Baines, H.** Detection of traces of soluble bromides, 1928, 178.
 — Volumetric method for determining silver in presence of halides and cyanides, 1929, 678.
- Baird, J. C., and Prentice, J. H.** The changes with age of the hydrogen ion concentration of egg white and egg yolk and of the refractive index of the egg white, 1930, 20.
- Baker, G. W.** Report of the Government Analyst for Palestine for the year 1924, 1926, 300; for 1925, 1927, 230; for 1926, 1928, 94; for 1928, 1930, 48; for 1929, 1931, 33; for 1930, 1932, 38; for 1931, 1933, 158; for 1932, 1933, 546; for 1933, 1934, 752.
 — Scientific evidence relating to fire-arms, with special reference to a recent murder trial, 1930, 738.
- Baker, G. W., and Taubes, S.** Fluorescence of milk and butter in ultra-violet light, 1932, 375.
- Baker, J. L., and Hulton, H. F. E.** Determination of carbon dioxide in beer, 1934, 419.
 — Separation of products resulting from the enzymic hydrolysis of starch, 1935, 765.
- Baker, J. W.** Tautomerism (Review), 1934, 580.
- Baker, L. C.** Constituents of meat acting as pointers of change, 1934, 486.
 — See also Bushill, J. H.
 — See also Drummond, J. C.
- Baker, L. C., and Marrian, G. F.** Determination of adrenaline, 1927, 651.
- Bakewell, B., and Bessey, G. E.** Determination of free calcium oxide and hydroxide, 1932, 575.

- Bal, D. V. Determination of nitrogen in heavy clay soils, 1926, 100.
- Balarew, D. The reaction between albumin and various metaphosphates, 1928, 400.
- Balarew, D., and Desew, N. Determination of manganese as pyrophosphate, 1927, 364.
- Bald, R. T. See Paine, K. S.
- Balderson, L. Determination of nitrogen in leather, 1927, 491.
- Balfrock, A. L. See Cohen, W. E.
- Ball, C. D., Jr. See Huston, R. C.
- Ball, E. G. See Sadusk, J. F.
- Ball, W. C. See Childs, A. E.
- Ballantyne, H. Review of Marlow's *Law and Industry*, 1930, 303.
- Ballard, C. W. The Elements of Vegetable Histology (Review), 1933, 187.
- Balls, A. K. Separation and determination of morphine, pseudomorphine and related substances, 1927, 162.
- Balls, A. K., and Hale, W. S. Determination of catalase in agricultural products, 1932, 733.
- Balls, A. K., and Swenson, T. L. Proteolysis in stored eggs, 1934, 629.
- Balls, A. K., and Wolff, W. A. Determination of morphine, 1929, 111.
- Balls, A. K., Swenson, T. L., and Stuart, L. S. Assay of papain, 1935, 420.
- Balthazard, —, and Philippe, M. Cyanmethaemoglobin and the determination of methaemoglobin, 1926, 466.
- Baly, E. C. C. Spectroscopy (Review), 1927, 732.
- Bambach, K., and Rider, T. H. Dichlorofluorescein as adsorption indicator for the volumetric determination of halides, 1935, 496.
- Bamford, F. Keeping properties of specific antisera for the precipitin test, 1928, 531.
- Porphyroxine test for Indian opium, 1930, 445.
- The Denigès-Oliver test for morphine, 1931, 586.
- The determination of antimony in viscera and excreta, 1934, 101.
- The fate of apomorphine after subcutaneous injection, 1930, 502.
- Bamford, T. G., and Harris, R. The Metallurgist's Manual (Review), 1927, 500.
- Banulescu, G. Determination of molybdenum by means of *o*-hydroxyquinoline, 1930, 716.
- Banerjee, P. C. Use of vanadous sulphate as a volumetric reducing agent, 1935, 573.
- Banks, A., and Hilditch, T. P. Body fats of the pig. II. Some aspects of the formation of animal depot fats suggested by the composition of their glycerides and fatty acids, 1932, 531.
- Fatty acids and component glycerides of some oleo oils, 1932, 388.
- Glyceride structure of beef tallows, 1931, 816.
- Note on the composition of some fatty materials found in ancient Egyptian tombs, 1933, 265.
- Banks, A., Dean, H. K., and Hilditch, T. P. Composition of commercial palm oils. IV. Progressive hydrogenation as an aid in the study of glyceride structure, 1935, 328.
- Bannister, C. O., and Doyle, W. M. Note on the determination of bismuth in copper, 1935, 33.
- Barbehenn, H. E. See Hardman, A. F.
- Barber, D. R. An artificial daylight illuminator, 1933, 337.
- Barber, H. H., and Kolthoff, I. M. Specific reagent for the rapid gravimetric determination of sodium, 1928, 456.
- Barbour, A. D. Deposition and utilisation of hydrogenation iso-oleic acid in the animal body, 1933, 557.
- Barbour, H. G., and Hamilton, W. F. The falling drop method for the determination of specific gravity, 1926, 596.
- Bardet, J. See Levaditi, C.
- Barger, G. Ergot and Ergotism (Review), 1932, 348.
- Barke, H. F. Appointment as Public Analyst for the Borough of New Sarum (Salisbury City), 1930, 565.
- Barkenbus, C., and Krewson, C. F. Oil of bitter-sweet seed, 1933, 50.
- Barkenbus, C., and Zimmerman, A. J. Kentucky coffee nut tree seed oil, 1927, 610.
- Barker, J. H., Eastland, C. J., and Evers, N. Colorimetric determination of adrenaline in suprarenal gland extracts, 1933, 232.
- Barker, M. L. Basic German for Science Students (Review), 1933, 571.
- Barnard, J. E., and Welch, F. V. Practical Photomicrography (Review), 1926, 486.
- Barnes, J. W. Sampling apples in the orchard for the determination of arsenical spray residue, 1929, 347.
- Barnes, W. H. See Maas, O.
- Barnett, H. M. Determination of carotene in butter-fat, 1934, 561.
- Barnicoat, C. R. Rancidity changes and the flavour of fats, 1931, 748.
- The determination of diacetyl and acetyl methyl carbinol, 1935, 653.
- Barr, G. A Monograph of Viscometry (Review), 1931, 496.
- Barr, G., and Thorogood, A. L. The determination of small quantities of fluorides in water, 1934, 378.
- Barrenscheen, H. K., and Frey, M. Identification of small amounts of bismuth in urine, 1930, 708.
- Barrett, E. See McClendon, J. F.
- Barrett, J. F., and Jones, E. B. Colorimetric method for the direct determination of urea in urine, 1932, 787.
- Barritt, J. Determination of sulphuric acid in wool, 1935, 335.
- Determination of total sulphur in keratins, 1934, 771.
- Barry, T. H. Arsenic in printing ink, 1927, 217.
- Malayan lumbang oil, 1929, 677.
- Natural Varnish Resins (Review), 1934, 308.
- Oil from Malayan *Aleurites montana* and the properties of Hong Kong oil, 1932, 85.
- Barry, T. H., Drummond, A. A., and Morrell, R. S. Natural and Synthetic Resins (Review), 1927, 56.
- Barsch, H. Distinction between malt and barley substitutes for coffee, 1933, 350.
- See also Rudolph, P.
- Barsutzkaja, S. See Glassmann, B.
- Bartell, E. E., and Osterhof, H. J. Determination of the "wettability" of a solid by a liquid, 1928, 61.

- Bartels, W.** Determination of citric acid in wine, 1933, 164.
— See also Plücker, W.
- Bartels, W., and Fauth, A.** Californian honeys, 1934, 44.
- Barth, L., and Massy, R.** Influence of insoluble matter on the Marsh test, 1927, 168.
- Barthe, L., and Dufilho, E.** Determination of chlorine and sodium in milk of certain mammals, 1927, 715.
— Determination of sodium, 1926, 479.
— Elimination of sodium and chlorine in cow's milk, 1927, 287.
- Barthmeyer, H.** See Schmalfluss, H.
- Bartlett, S.** Studies in milk secretion based on the variations and yields of milk and butterfat produced at morning and evening milkings, 1929, 179.
- Barton, R. C.** See Swift, E. H.
- Barton-Wright, E. C., and Boswell, J. G.** Biochemistry of dry-rot in wood, 1929, 358.
- Bartow, E., and Weigle, O. M.** Zinc in water supplies, 1932, 401.
- Barwasser, N.** See Kahlenberg, L.
- Basherov, S.** See Steenbock, H.
- Basu, K. L.** See Goswami, M.
- Batchelder, G., and Meloche, V. W.** Volumetric determination of fluorine by means of cerous nitrate, 1931, 555.
- Batchelor, J. J.** Relative toxicity of benzol and its higher homologues, 1927, 426.
- Bateman, F. C. L.** See Bennett, C. T.
- Bates, S. C.** The Synthesis of Benzene Derivatives (Review), 1926, 430.
- Battay, F.** See Grossfeld, J.
— See also Miermeister, A.
- Baud, —, and Courtois, —.** Detection of virgin olive oils in refined olive oils, 1928, 164.
- Baudisch, O.** See Dyer, E.
- Baudisch, O., and Dyer, E.** The *o*-quinone test for cysteine, 1933, 171.
- Bauer, K. H.** Polymerised linseed oil, 1926, 422.
- Bauer, O., and Deiss, E.** Sampling and analysis of alloys, 1930, 65.
- Baughman, W. F.** See Jamieson, G. S.
- Baughman, W. F., and Jamieson, G. S.** Chemical composition of ergot oil, 1928, 387.
— Chia seed oil, 1929, 677.
— Determination of solid fatty acids in the original sample by the lead salt and alcohol method, 1930, 714.
- Baughman, W. F., Jamieson, G. S., and McKinney, R. S.** American reindeer fat, 1929, 605.
- Baum, F.** Determination of propionic acid in acetic acid and acetic anhydride, 1927, 607, 608.
- Baumann, C. A., and Steenbock, H.** Fat-soluble vitamins. XXXVI, Carotene and vitamin A content of butter, 1933, 560; XXXVII, The stability of carotene solutions, 1933, 560.
- Baumann, C. A., Steenbock, H., Beeson, W. M., and Rupel, I. W.** Influence of breed and diet of cows on the carotene and vitamin A content of butter, 1934, 497.
- Baumann, C. A., Steenbock, H., Ingraham, M. A., and Fred, E. B.** Micro-organisms and the synthesis of carotene and vitamin A, 1934, 121.
- Baumann, K., and Kuhlmann, J.** Commercial nicotine-free, nicotine-poor and nicotine-harmless tobacco preparations, 1930, 142.
- Bäumle, A.** See Stollenwerk, W., and Bäurle, A.
- Bauschinger, C.** See Täufel, K.
- Baver, L. D., and Rehling, C. P.** Use of barium sulphate for clarifying soil suspensions, with particular reference to colorimetric pH determinations, 1930, 645.
- Bawden, A. T.** See Foulk, C. W.
- Baxter, G. P., and Others.** Fifth Report of the Committee on Atomic Weights of the International Union of Chemistry, 1935, 477.
- Bayes, A. W.** Conditioning box for cloth samples, 1935, 344.
- Bayley, T.** A Pocket Book for Chemists, 1929, 264.
- Bayliss, J. R.** Turbidimeter for measurement of low turbidities, 1926, 270.
- Bazliss, L. E.** Conductivity method for the determination of carbon dioxide, 1927, 557.
- Bazille, S.** See Fabre, R.
- Beadles, J. R.** See Mitchell, J. H.
- Beagall, Challenger, Martin and Sand.** Dye-stuffs and Coal-Tar Products (Review), 1927, 256.
- Beal, G. D., and Others.** Aluminium content of foodstuffs cooked in glass and aluminium, 1932, 392.
- Beale, J. F.** Obituary notice of J. C. Thresh, 1932, 549.
— See also Thresh, J. C.
- Beans, H. T., and Mossman, D. R.** Separation and determination of titanium as titanium potassium iodate, 1932, 476.
- Beard, H. H., and Jersey, V.** Optical rotation of glucose and insulin solutions in contact with muscle tissue *in vitro*, 1926, 640.
- Beath, O. A.** Natural occurrence of aconitic acid and its isomers, 1926, 525.
- Beauverie, J.** Individual resistance of micro-organisms, especially yeasts, to ultra-violet rays, 1934, 563.
- Beauzumont, Y.** See Bertrand, G.
- Beber, M.** See Morgulis, S.
- Bechdel, S. I., and Honeywell, H. E.** Relation between the vitamin B content of the "feed" eaten and that of the milk produced, 1927, 721.
- Bechdel, S. I., Honeywell, H. E., Dutcher, R. A., and Knutsen, M. H.** Synthesis of vitamin B in the rumen of the cow, 1929, 55.
- Beck, K., and Caspar, E.** Albuminous compounds from the meat of different animals, 1929, 238.
- Beck, K., and Schmidt, W. A.** Antimony enamels, 1928, 302.
- Beck, K., and Urack, H.** Arnold's sodium nitroprusside reaction for proteins and the denaturing of flesh protein by means of concentrated urea solution, 1933, 408.
- Becker, H.** See Stern, E.
- Becker, J. E., and McCollum, E. V.** Nature of dietary deficiencies of milk, 1930, 704.
- Becker, R. B., and Others.** Palatability and possible toxicity of different species of *Crotalaria*, 1935, 715.
- Bee, A. H., and Chaikoff, I. L.** Identification of acetaldehyde in normal blood and its quantitative study in blood of normal and diabetic dogs, 1926, 640.

- Beeli, C.** See Treadwell, W. D.
- Beeson, W. M.** See Baumann, C. A.
- Begbie, R. S., and Gibson, H. J.** Occurrence of typhoid-paratyphoid bacilli in sewage, **1930**, 593.
- Beger, H.** Die Arbeitsmethoden der Trinkwasser Biologie, **1931**, 678.
- Behr, J. D., Palmer, J. W., and Clarke, H. T.** Determination of bromides in biological material, **1930**, 641.
- Behre, J. A.** See Benedict, S. R.
- Behre, J. A., and Benedict, S. R.** Colorimetric method for the determination of acetone bodies in blood and urine, **1926**, 639.
- Beister, —, Wood, —, and Wahlh, —.** Sweetness of sugars, **1926**, 255.
- Belcot, C.** Volumetric method for the determination of magnesium in industrial waters, **1927**, 45.
- Bell, F.** The interaction of amines and phenols with arylsulphonyl chlorides, **1931**, 802.
- Bell, H. S.** See Trotman, S. R.
- Bell, M. E.** See Drummond, J. C.
- Bell, R. P.** Titration method for the determination of water, **1933**, 110.
- Belloc, G., Fabre, R., and Simmonet, H.** Biological study of sterols. Sterols of plankton, **1930**, 587.
- Bellucci, I.** Micro-determination of bromides and iodides in presence of chlorides, **1935**, 275.
- Bellucci, I., and Vigni, R.** Determination of iodine in blood and thyroid, **1935**, 263.
- Bencko, V.** See Dabsky, J. V.
- Bendikson, L.** Ultra-violet light source for documentary photography, **1935**, 61.
- Benedek, L.** Determination of capsanthin in ground paprika products, **1934**, 188.
- Benedetti-Richler, A. A.** Rinnmann's Green test for zinc, **1932**, 673.
- See also Gettler, A. O.
- See also Weinstein, L. I.
- Benedict, S. R.** Determination of blood sugar. II, **1928**, 230.
- Determination of sugar in blood and normal urine, **1926**, 467.
- Purification of picric acid for creatinine determination, **1929**, 428.
- See also Behre, J. A.
- Benedict, S. R., and Newton, E. B.** Use of molybdic acid as a precipitant for blood proteins, **1929**, 428.
- Benedict, S. R., Newton, E. B., and Behre, J. A.** New sulphur-containing compound (thiasine) in the blood, **1926**, 257.
- Benesch, E.** Rapid method for the determination of selenium, **1929**, 63; Erratum, **1929**, 191.
- Determination of sodium hydrosulphide in sodium sulphide products, **1933**, 782.
- Benesch, E., and Erdheim, E.** Rapid method for the determination of selenium, **1931**, 133.
- Bengen, M. F.** Detection of pasteurisation, and detection of raw milk in pasteurised milk, **1933**, 699.
- Bengen, M. F., and Bohm, E.** Is the amylase test alone sufficient to indicate permanent pasteurisation?, **1935**, 325.
- Bengis, R. O., and Anderson, R. J.** Composition of the glycerides of coffee-bean oil, **1934**, 494.
- Bengis, R. O., and Anderson, R. J.** Unsaponifiable matter of coffee-bean oil. Preparation and properties of Kahweol, **1932**, 579.
- Bennett, A. H.** The titration of vitamin C in citrus juices, **1934**, 91.
- Bennett, A. H., and Tarbert, D. J.** Vitamin C in citrus juices, **1934**, 52.
- Bennett, C. T., and Bateman, F. C. L.** Diastatic power of malt and malt extract, **1930**, 763.
- Bennett, C. T., and Cocking, T. T.** The hydroxylamine method for the determination of ketones: Carvone in caraway and dill oils, **1931**, 79.
- Bennett, C. T., and Salamon, M. S.** A general method for the determination of aldehydes in essential oils, with particular reference to the determination of citronellal in Java citronella oil and citral in lemon oil, **1927**, 693.
- Bennett, H., and Harwood, H. F.** The volumetric determination of nitrites by means of ceric sulphate solution, **1935**, 677.
- Bennett, H. B.** See Shohl, A. T.
- Bennett, H. C., and Lee, R.** Drawing reproduction and lantern-slide making, **1932**, 200.
- Bennett, J. N.** See Wilson, A. A.
- Bennett, R. R., and Cocking, T. T.** The Science and Practice of Pharmacy. Vols. I and II (Review), **1933**, 647.
- Bennett, R. R., and Middleton, G.** Colour of compound tincture of cardamoms, **1926**, 525.
- Bennett, T. N.** See Callaway, J.
- Bennett, T. N., and Bickford, C. F.** Determination of alcoholic extractive in gum benzoin, **1928**, 546.
- Bennett, W. R.** Determination of uranium in ores, **1934**, 301.
- Benoy, M. P.** Mineral content of the jujube or Chinese date, **1930**, 200.
- Bentley, A. O.** Analytical Tables (Review), **1928**, 309.
- Benton, A. G., and Albery, H. G.** Stability of evaporated milk during sterilisation, **1926**, 413.
- Benz, H.** See Mohler, H.
- Benzon, B.** See Bertrand, G.
- Beran, F.** Effect on fruit of fumigation with hydrocyanic acid, **1933**, 775; **1935**, 333.
- Beregekoff, D.** See Vilella, J. R.
- Berg, P., and Schulze, G.** New pentabromoacetone process for determining citric acid in wine, **1934**, 553.
- Berg, R.** Determination of bismuth by means of oxyquinoline, **1928**, 58.
- Determination of cadmium and aluminium by means of oxyquinoline, **1927**, 611.
- Determination of magnesium by means of oxyquinoline, **1927**, 431.
- Determination of zinc by means of oxyquinoline, **1927**, 494.
- new method for the determination and separation of metals by means of *o*-oxyquinoline, **1927**, 302.
- Berg, R., and Teitelbaum, M.** Iodimetric selenium determination, **1928**, 241.
- Separation and determination of titanium by hydroxyquinoline, **1930**, 596.
- Berg, R., Grimmer, W., and Müller, A.** Determination and separation of saligenin, salicylic acid, and salicylaldehyde, **1932**, 115.

- Berggren, R. E. L.** Determination of phosphorus in casein, **1932**, 319.
— Phosphorus content of casein, **1932**, 318.
- Bergmann, W.** Contributions to the study of marine products. III, Chemistry of ostrea-sterol, **1934**, 426.
— Note on bombicsterol, **1935**, 49.
— Sterols of molluscs, **1934**, 294.
- Berl, E., Rueff, G., and Wahlig, W.** Quantitative determination of acetic acid in cellulose acetates, **1932**, 57.
- Berlitzky, A., and Guevara, T.** Perception of acid taste, **1928**, 447.
- Berlie, J.** Determination of rancidity in flours, semolinas and Italian pastes, **1934**, 629; **1935**, 181.
- Berlin, H.** Occurrence of gentiobiose in the products of the commercial hydrolysis of corn starch, **1926**, 635.
- Bernardini, F., and Gauthier, E. A.** Characterisation of sansa (olive) oil, **1934**, 59.
— Determination of the ash of bread, **1931**, 257.
- Bernette, A.** See Dupont, G.
- Bernhard, A., and Dreker, I. J.** Effect of ultra-violet irradiation upon the free sterols of lanolin, **1931**, 756.
- Bernhauer, K.** Einführung in die Organisch-chemische Laboratoriumstechnik (Review), **1935**, 788.
- Bernheim, F.** The aldehyde oxidase of the potato, **1928**, 393.
- Bernoulli, A. L.** Sliding-gauge colorimeter, and the determination of small amounts of ammonia, nitrites, lead and iron, **1926**, 649.
- Berolzheimer, D. D.** See West, C. J.
- Berry, A. J.** Experiments on quantitative oxidation with ceric sulphate, **1929**, 461.
— Observations on the use of adsorption indicators in titrations of halides of limited or reversible ionisation, **1932**, 511.
— The determination of vanadium with potassium iodate, with notes on chloramine-T as oxidising agent, **1934**, 736.
— The direct titration of thalious salts by potassium iodate, **1926**, 137.
— The volumetric determination of hydrogen peroxide and Caro's acid in the presence of perdisulphuric acid, **1933**, 464.
— See also Dootson, F. W.
- Berry, A. J., and Durrant, P. J.** New adsorption indicators for argentometry, together with a comparison of their limits of sensitiveness, **1930**, 613.
- Berry, H.** Extracts of capsicum, **1935**, 625.
- Berry, H., and Gouzon, B.** Influence of the pH value on a colour reaction of adrenaline, **1930**, 519.
- Berry, P. A.** See Hendry, J.
- Bersin, T.** New method for the detection of cobalt, **1931**, 763.
- Berth, T.** Determination of water in dynamite glycerin, **1928**, 108.
- Berthelot, J.** See Marie, C.
- Berthelsen, K. C.** See Van Slyke, D. D.
- Bertholf, L. M.** Utilisation of carbohydrates by honey bee larvae, **1928**, 47.
- Bertin, C.** Differentiation of fermentation vinegar from artificial vinegar, **1932**, 722.
- Bertram, S. H.** Quantitative determination of the water-insoluble, higher, saturated fatty acids in fats and fatty acids, **1927**, 489.
— See also Waterman, E. J.
- Bertram, S. H., and Van Meurs, W. A.** Apparatus for filtration in the warm of saturated solutions, **1930**, 300.
- Bertrand, E.** Determination of cobalt in steel, **1930**, 346.
— Rapid determination of molybdenum in steel, **1932**, 406.
- Bertrand, G.** Reagent facilitating the formation of haemin crystals from blood, **1932**, 664.
— Vitamins of olive oil and effect of refining, **1931**, 56.
- Bertrand, G., and Andreitcheva, A.** Comparative zinc-contents of green and etiolated leaves, **1934**, 638.
- Bertrand, G., and Beauzémont, Y.** Variations in the zinc content of animals with age. Influence of milk diet, **1930**, 455.
- Bertrand, G., and Benzon, B.** Zinc content of the principal vegetable foodstuffs, **1929**, 349.
- Bertrand, G., and Carneiro, P. de B.** Existence and distribution of caffeine and theobromine in guarana, **1932**, 388.
- Bertrand, G., and Ciurea, V.** Tin in the animal organism, **1931**, 409.
- Bertrand, G., and Levy, G.** Amounts of aluminium in plants, especially edible plants, **1932**, 119.
- Bertrand, G., and Macheboeuf, M.** Nickel and cobalt in the pancreas, **1927**, 95.
- Bertrand, G., and Nakamura, H.** Physiological importance of nickel, **1927**, 652.
- Bertrand, G., and Perietzeanu, J.** Sodium in plants, **1927**, 488.
- Bertrand, G., and Serbescu, P.** Daily administration of small quantities of aluminium in relation to the development of cancer, **1934**, 422.
- Bertrand, G., and Silberstein, L.** Sulphur and phosphorus in the various parts of the wheat grain, **1933**, 617.
- Bertrand, G., and Voronca-Spirt.** Presence and distribution of titanium in animals, **1930**, 585.
- Besemann, —.** Use of methyl orange for the detection of free chlorine and chloramine, **1923**, 669.
- Bessey, G. E.** Modification of the glycerol method for determination of free lime, **1930**, 651.
— See also Bakewell, B.
- Bessey, O. A., and King, C. G.** Distribution of vitamin C in plant and animal tissues, and its determination, **1934**, 122.
- Besson, H.** Polarimetric determination of tartaric acid, **1927**, 489.
- Bethke, R. M., Zinzalian, G., Kennard, D. C., and Sagsaman, H. L.** Antirachitic properties of cod-liver meals, **1929**, 182.
- Beutelspacher, H.** Rapid determination of small quantities of lime in soil solutions, **1934**, 361.
- Bây, L.** Analytical applications of the reaction of ammonia on resorcinol in the presence of cations, **1931**, 62.
- Bey, L., and Fallebin, M.** A reaction of lead, **1930**, 346.

- Bey, L., and Failleoin, M.** A reaction of resorcinol and a new coloured indicator, 1929, 561.
- Beyer, D. S.** See Hurlburt, C. S.
- Beyer, O.** Formula for the determination of saccharin by titration, 1931, 606.
- Bezsonoff, N.** Rapid preparation of monomolybdophosphotungstic acid as a reagent for polyphenols and vitamins, 1926, 358.
— Vitamin A and carotene, 1930, 340.
— See also Truffaut, G.
- Bezsonoff, N., and Delire, A.** Colour reactions of vitamin C, 1933, 563.
- Bhagwat, W. V.** Nickel salts as light filters, 1934, 371.
- Bhattacharjee, S. N.** See Ghose, M. N.
- Bhattacharya, R., and Hilditch, T. P.** Body fats of the pig. I, Influence of ingested fat on the component fatty acids, 1932, 256.
— The fatty acids and component glycerides of Indian ghee, 1931, 161.
- Biber, W. A.** See Bogatsky, W. D.
- Bickel, V. T., and French, H. E.** α -Naphthyl isocyanate as a reagent for alcohols, 1926, 263.
- Bickford, C. F.** See Bennett, T. N.
- Bicskei, J.** Thiosulphate as an acidimetric standard, 1932, 589.
- Bierry, H., Gouzon, B., and Magnan, C.** Application of the iodimetric method to the determination of sugar in blood, 1933, 354.
- Bigelow, N. M.** See Jacobs, W. A.
- Bigelow, W. D.** Bulging cans of loganberries, 1927, 636.
- Bijlsma, U. G., Burn, J. H., and Gaddum, J. H.** Comparison of the oxytocic, pressor and anti-diuretic activities of commercial samples of pituitary extract, 1929, 298.
- Bikermann, J. J.** Determination of tetramethylammonium, 1933, 109.
- Bilham, P.** Note on the spectrographic determination of small amounts of aluminium in food, 1932, 418.
— Review of Boys's *The Natural Logarithm*, 1935, 436.
— Review of Johnson's *Easily Interpolated Trigonometric Tables with Non-interpolating Logs, Cologs and Antilogs*, 1934, 443.
— See also Lampitt, L. H.
- Bills, C. E.** See Honeywell, E. M.
- See also McDonald, F. G., and Bills, C. E.
- Bills, C. E., and Honeywell, E. M.** Antirachitic substances. VIII. Studies on highly purified ergosterol and its ester, 1929, 53.
- Bills, C. E., and McDonald, F. G.** Antirachitic substances. IV. The polymerisation of cholesterol, 1926, 469.
— Crystalline vitamin D, 1932, 469.
- Bills, C. E., Honeywell, E. M., and Cox, W. M., Jr.** Influence of solvents on the activation of ergosterol, 1931, 678.
- Bills, C. E., Honeywell, E. M., and MacNair, W. A.** Biochemical and spectroscopic studies on purified cholesterol, 1929, 169.
- Bills, C. E., Massengale, O. N., and Prickett, P. S.** Factors determining the ergosterol content of yeast. I, Species, 1930, 522.
- Bills, C. E., and Wirick, A. M.** Feeding experiment with activated ergosterol, 1930, 342.
- Biltz, H.** Separation of lead and antimony, 1930, 648.
- Binder, F.** See Vortmann, G.
- Binet, L., and Weller, G.** Quantitative determination of glutathione, 1934, 423.
- Bing, F. C.** Purification of benzidine, and an improved reagent for determination of haemoglobin in blood, 1932, 329.
- Birch, T. W., Harris, L. J., and Ray, S. N.** Microchemical method for determining the hexuronic acid (vitamin C) content of food-stuffs, etc., 1933, 490.
- Birckner, V.** See Seidell, A.
- Bird, J. C., Panciera, Z., and Schafer, E. G. E.** Sodium dinitrophenate, 1935, 187.
- Bird, O. D.** See Emmett, A. D.
— See also Winter, O. B.
- Birtwell, C., Clibbens, D. A., and Geake, A.** Action of sodium hydroxide on modified cotton cellulose at the ordinary temperature, 1928, 672.
- Birtwell, C., and Ridge, B. P.** Determination of cellulose by oxidation with chromic acid, 1928, 671.
- Bischoff, M. A.** See Mellet, R.
- Bishop, F.** See Mummery, W. R.
- Bishop, G.** See Gillam, A. E.
— See also Watson, S. J.
- Bishop, L. R.** Determination of cyanogenetic glucosides, 1928, 53.
— Electro-magnetic method of measuring specific gravity, 1934, 576.
— Obituary of F. E. Day, 1935, 208.
- Bishop, W. S.** See Kemp, A. R.
- Bisson, C. S., and Sewell, J. G.** Determination of cuprous oxide produced in sugar analysis, 1927, 289.
- Bitting, C. D.** See Picard, J.
- Blacet, F. E., and Leighton, P. A.** Dry method for the micro-analysis of gases, 1932, 337.
- Black, J. W.** Freshly ground coffee and "blown" tins, 1926, 403.
- Black, J. W., and Warren, B. J. W.** Notes on the effect of other reducing substances on the determination of sulphur dioxide, 1928, 130.
- Black, O. F., and Kelly, J. W.** Pseudo-ephedrine from *Ephedra alata*, 1928, 166.
- Black, O. F., Eggleston, W. W., and Kelly, J. W.** Toxicity of *Bikukulla formosa* (Western bleeding heart), 1930, 525.
- Blackburn, K. B., and Thomas, M.** Rapid detection of fatty oils in green cells, 1928, 300.
- Blackie, J. J.** Alkaloid content of belladonna root, 1926, 202.
- Blackie, W. J.** Report of the Government Chemist for Fiji for the year 1930, 1932, 251; for the year 1931, 1932, 781; for the year 1932, 1934, 177.
- Blacktin, S. C.** Dust (Review), 1935, 66.
- Blaiguan, S.** See Damiens, A.
- Blair, J. S.** See Pinck, L. A.
- Blair, R. W.** Poisoning by acetic acid, 1931, 596.
— Poisoning by ammonia, 1931, 654.
— Report of the Chemist of Federated Malay States Institute for Medical Research for 1924, 1926, 144; for 1925, 1929, 158; for 1926, 1929, 593; for 1928, 1930, 580; for 1930, 1932, 40; for 1931, 1933, 160; for 1932, 1934, 179.

- Blair, R. W.** The Water Supplies of the Federated Malay States, 1933, 574.
- Blair, R. W.,** and **Byron, F. E.** Damar Penak, 1928, 57.
- Blanchetière, A.,** and **Arnoux, M.** New method for the micro- and semimicro-determination of magnesium, 1933, 305.
- Blanco, J. G.** See Raymond, A. L.
- Blank, N. F.** Micro density determination of gases by direct weighing, 1933, 641.
- Blanken, P. L.** Determination of vanadium in steel according to the potentiometric titration method of Thanheiser and Dickens, 1932, 475.
- Blankenhorn, M. A.** Urobilin content of normal human blood, 1929, 116.
- Blann, J. G.** See Ramsay, J. B.
- Blau, N. F.** Determination of thyroxine in the thyroid gland, 1933, 706.
- Bledsoe, M. S.** See Aldrich, M.
- Bléger, J.** See Sabetay, S.
- Blench, R. O.** Test for distinguishing between meat extract and yeast extract, 1935, 256.
- Blenkinsop, A.** Volumetric determination of sodium, 1931, 134. See also list of Errata.
- Bleyer, B.** See Diemair, W.
- Bleyer, B.,** and **Diemair, W.** Detection of fruit wine in grape wine, 1929, 603.
- Bleyer, B.,** and **Spiegelberg, E.** Evaluation of rubber hosing, containing antimony pentasulphide, for use in the food industries, II, 1933, 353.
- Bleyer, B.,** **Diemair, W.,** and **Frank, E.** Determination of higher alcohols (fusel oil), 1934, 59.
- Bleyer, B.,** **Diemair, W.,** and **Lix, G.** Detection of sorbitol in wine, 1933, 163.
- Blicke, F. F.,** and **Smith, F. D.** Identification of ortho-, meta- and para-hydroxybenzoic acids, 1929, 487.
- Blish, M. J.,** and **Sandstedt, R. M.** Nature and identity of wheat glutenin, 1930, 145.
- Bliss, E. A.** Anaerobic spore-bearing bacteria in milk, 1926, 589.
- Bliss, H. H.** See Smith, G. F.
- Bliss, H.,** **Duerden, J.,** **Roberts, J. F.,** **Blyth, J.,** **Hirst, H.,** and **King, A. T.** Examination of kemp fibres, 1926, 475.
- Bliss, S.** Quantitative determination of the amide nitrogen of blood, 1929, 180.
- Block, R. J.,** **Cowgill, G. R.,** and **Klotz, B. H.** Assay of antineuritic vitamin and its concentration with silver, 1932, 186.
- Blodgett, H. M.** See Booher, L. E.
- Blom, A. V.** The polarising microscope as a laboratory instrument, 1926, 111.
- Blood, J. W.** See Cranfield, H. T.
- Bloom, A.,** and **Osol, A.** Indicator properties of *p*-nitrophenyl-acetyl-hydrazine, 2, 4-dinitrophenyl-acetyl-hydrazine, and 2, 4, 6-trinitrophenyl-acetyl-hydrazine, 1934, 126.
- Bloor, W. R.** Distribution of unsaturated fatty acids in tissues. III, Vital organs of beef, 1929, 112.
— See also Snider, R. H.
- Bloor, W. R.,** and **Snider, R. H.** Neutral fat of beef liver and other tissues, 1930, 518.
- Blount, B. K.** Wax of the felted beech coccus, 1935, 425.
- Bloxam, H. C. L.** Review of Clowes and Coleman's *Quantitative Chemical Analysis*, 13th Ed. 1932, 597.
— Review of Diatomaceous Earth, by R. Calvert, 1930, 662.
— See also Dunn, J. T.
- Blumenthal, H. B.** See van Nieuwenberg, G. J.
- Blumenthal, H.** Determination of antimony in copper, 1932, 797.
— Separation of lead and bismuth, 1929, 679.
- Blunt, T. P.** The analysis of commercial lime, 1926, 625.
- Blyth, A.** and **M. Wynter.** Foods: Their Composition and Analysis (Review), 1928, 466.
- Blyth, J.** See Bliss, H.
- Boam, J. J.** See Cahn, R. S.
- Boas-Fixsen, M. A.** Effect of desiccation upon nutritive properties of egg-white. II, 1931, 543.
- Boas-Fixsen, M. A.,** **Hutchinson, J. C. D.,** and **Jackson, H. M.** Biological value of proteins. V, The comparative biological value of the proteins of whole wheat, whole maize and maize gluten, measured by the growth of young rats, 1934, 557.
- Bobranski, B.** Preparation and properties of *Mentholum valerianicum* (Validol), 1935, 47.
- Bock, A.** Determination of chloride in commercial cyanides, 1926, 425.
- Bock, J. C.** Interferometric determination of alcohol, 1932, 49.
- Boeckmüller, W.** Detection and determination of fluorine in organic compounds, 1933, 107.
- Bodansky, M.** Introduction to Physiological Chemistry (Review), 1927, 664; 2nd Ed., 1931, 139; 3rd Ed., 1934, 851.
- Bodansky, M.,** and **Fay, M.** Laboratory Manual of Physiological Chemistry, 3rd Ed., 1935, 504.
- Bode, G.** Determination of iron in beer by means of *ad*-dipyridyl, 1934, 116.
- Bodea, C.** See Ionescu, M. V.
- Bodnár, J.,** and **Nagy, v. L.** Micro-titrimetric determination of nicotine in tobacco, 1934, 574.
- Bodschwinn, W.** See Weinstein, P.
- Böe, J.** See Lunde, G.
- Boehm, G.** Barium sulphate as indicator of the efficiency of sulphuric acid in drying apparatus, 1929, 373.
- Boehm, W.,** and **Raetsch, W.** Determination of antimony in copper and copper alloys, 1932, 538.
- Boer, H. W.** Destruction of diastatic enzymes in honey on heating, 1931, 55.
- Böeseken, J.** Constitution of α -elaostearic acid, the most important component of Chinese wood oil (tung oil), 1929, 305.
— Oxidation by means of organic per-acids, 1934, 568.
— The α -elaostearic acid of China wood oil (tung oil), 1928, 54.
— See also Gelber, E. T.
- Böeseken, J.,** and **Coops, J.** Dissociation constants of various acids in the presence of boric acid, 1926, 423.
- Boettner, R.** See Fischler, F.
- Bogatsky, W. D.,** **Biber, W. A.,** and **Kischinewskaja, L. G.** Marbling and corrosion of the interior of preserve tins, 1930, 143.

- Bogert, M. T.** See Curtain, L. P.
- Bogod, M.** Review of Johnson's *Non-interpolating Logarithms, Cologarithms and Antilogarithms*, 1931, 42f.
- See also Lampitt, L. H.
- Bogue, R. E.** See Larch, W.
- Bohart, R. M.** Anaerobic bacteria causing black-rot of eggs, 1930, 206.
- Bohm, E.** See Bengen, M. F.
- See also Prescher, J.
- Böhm, E., and Dietrich, K. R.** Reagents and Culture Media (Review), 1928, 186. Erratum, 1928, 241.
- Böhm, W.** Determination of small quantities of zinc in aluminium, 1927, 494.
- Bohstedt, G.** See Phillips, P. H.
- Boinot, G.** See Lematte, L.
- Boisson, N.** See Astrey, A.
- Boivin, A.** General method for the micro-determination of carbon by the use of chromic acid oxidation, 1929, 517.
- See also Meesemaeker, R.
- Bolam, T. R.** The Donnan Equilibria (Review), 1932, 542.
- Boldyreff, A. W.** See Willard, H. H.
- Bollbecher, M. T.** See Dafert, O.
- Bolliger, A.** Volumetric determination of potassium with methylene blue following its precipitation as potassium picrate, 1934, 846.
- Bolton, E. R.** Oils, Fats and Fatty Foods (Review), 1928, 363.
- Oils under ultra-violet light, 1930, 746.
- Presidential Address, 1927, 183; 1928, 190.
- Review of Hilditch's *Catalytic Processes in Applied Chemistry*, 1930, 68.
- Botton, E. R., and Williams, K. A.** A test for Chinese wood (tung) oil, 1926, 335.
- Colour measurement of oils and other liquids, 1935, 447.
- The composition and polymerisation of Chinese wood (tung) oil, 1930, 360.
- The determination of unsaponifiable matter, with special reference to fish and marine animal oils, 1932, 25.
- The grouping of fatty oils, with special reference to olive oil, 1930, 5.
- The specific gravity of fatty oils shipped in bulk, 1935, 158.
- Bömer, A., and Ebach, K.** Glycerides of fats and oils. XII. Glycerides of lauric and myristic acids, 1928, 603.
- Bömer, A., and Engel, H.** Glycerides of chaulmoogra oil, 1929, 423.
- Bömer, A., Juckenack, A., and Tillmans, J.** *Handbuch der Lebensmittel-Chemie*. Vol. I, 1933, 503; Vol. II, 1934, 440; 1935, 786; Vol. VI, 1935, 345.
- Bomford, R. R., and Hunter, D.** Hydrogen arsenide poisoning due to the action of water on metallic arsenides, 1933, 106.
- Bomskov, C.** *Methodik der Vitaminforschung*, (Review), 1935, 348.
- Bond, C. J.** Colour test for radio-sensitive substances, 1927, 719.
- Bond, G. R.** Rapid determination of mercaptans, 1934, 56.
- Bone, W. A., and Townend, D. T. A.** Flame and Combustion in Gases (Review), 1927, 734.
- Bone, W. A., Newitt, D. M., and Townend, D. T. A.** Gaseous Combustion at High Pressures (Review), 1930, 302.
- Bongland, P.** See Wenger, P.
- Bonis, A.** Commercial glyzines (ammonium glycyrrhizates), 1930, 140.
- Bonn, A., and Desgrez, C.** Determination of caffeine in coffee decoctions and coffee extracts, 1932, 115.
- Bonner, W. D., and Kaura, B. D.** Determination of copper oxide and metallic copper in mixtures of the two, 1928, 57.
- Bonnet, A.** See Meunier, L.
- Bonetti, S.** See Antoniani, C.
- Boock, E.** See Trevan, J. W.
- Booer, J. R.** Solid hydrogen peroxide, 1926, 50.
- Booher, L. E.** Concentration and probable chemical nature of vitamin G (B_2), 1933, 709.
- Further studies on the concentration and chemical nature of vitamin $B_2(G)$, 1935, 50.
- Booher, L. E., Blodgett, H. M., and Page, J. W.** Investigation of the growth-promoting properties of vitamin $B_2(G)$ concentrates, 1935, 50.
- Boor, A. K., and Bachem, A.** Spectrographic study of carbon monoxide haemoglobin, 1930, 405.
- Booth, F. J.** Microchemical test for choline and its esters in tissue extracts, 1935, 845.
- Booth, H. S.** See Schreiber, N. E.
- Booth, H. S., and Schreiber, N. E.** Determination of traces of mercury, 1926, 106.
- Booth, H. S., Schreiber, N. E., and Zwick, K. C.** Determination of traces of mercury in the presence of organic matter, 1926, 477.
- Booth, J. H. W.** See Grant, J.
- Booth, R. G.** See Kon, S. K.
- Booth, R. G., Kon, S. K., Dann, W. J., and Moore, T.** Seasonal variation in butter-fat. I. Seasonal variations in carotene, vitamin A and the antimony trichloride reaction, 1934, 50.
- Booth, R. G., Kon, S. K., and Gillam, A. E.** Relative biological efficiencies of the vitamin A and carotene of butter, 1935, 333.
- Boratynski, K.** Colorimetric determination of orthophosphate in presence of pyro- and metaphosphate, 1935, 842.
- Bordas, F., and Desfemmes, A.** Distribution and transport of chlorides in the atmosphere, 1927, 730.
- Bordeianu, C. V.** Determination of thymol, 1933, 237.
- Borgstrom, P., and Reid, E. E.** Determination of mercaptans in naphtha, 1929, 767.
- Borntraeger, A.** Organic acids of tomatoes, 1926, 151; 1928, 388.
- Bosart, L. W., and Snoddy, A. O.** New glycerol tables for specific gravity and per cent. of glycerol, 1927, 434.
- Specific gravity of glycerol, 1929, 186.
- Bose, A. C.** Preliminary notes on the sterol iodine values of oils and fats by the Bolton and Williams method, 1935, 160.
- Bose, A. C., and Bagchi, K. N.** A new method for the colorimetric determination of small quantities of iodide in presence of other halides, 1935, 80.
- Bose, M. K.** See Ray, P.

- Bose, P. K.** A new method for the detection of the nitro-group in some organic compounds, 1931, 504.
- Bose, P. K.** Sensitive means of detecting reducing carbohydrates, 1932, 264.
- Boseley, L.** Obituary of H. Droop Richmond, 1931, 700.
- Bossuyt, V.** See Fosse, R.
- Boswell, J. G.** See Barton-Wright, E. C.
- Bosworth, A. W., and Brown, J. B.** Isolation and identification of some hitherto unrecorded fatty acids in butter-fat, 1934, 183.
- Botcharsky, S., and Foehringer, A.** Photographic effects of vitamins *A* and *B*, 1931, 547.
- Böttger, W.** Potassium antimonate test for sodium, 1930, 773.
- Bouffard, E.** See Ventre, J.
- Bougault, J., and Cattelain, E.** Identification and determination of citral, 1935, 480.
- Bougault, J., and Leroy, B.** Determination of camphor in pharmaceutical preparations, 1929, 46.
- Determination of synthetic camphor in pharmaceutical preparations, 1928, 546.
- Bougault, J., and Schuster, G.** Composition of karité butter, 1931, 669.
- New triglyceride obtained on oxidising cocoa butter, 1931, 406.
- Oxidation of dihydroxystearic acid by potassium permanganate in acetone, 1932, 191.
- Bougault, J., Hardy, Z., and Pinguet, A.** Action of sodium borate on the reaction of alkali cyanides with reducing sugars, 1932, 410.
- Bougault, J., and Laboucq, J.** Determination by means of Nessler's reagent of methylols derived from amides and urea, 1933, 300.
- Boulad, J. H.** Conductometric method of titrating potassium, 1933, 781.
- Boulez, V.** Analysis of oleines and stearines, 1933, 50.
- Bourdillon, R. B.** See Webster, T. A.
- Bourget, P.** See Perrot, E.
- Bourset, P.** Determination of pilocarpine, 1929, 245.
- Boury, M.** See Hinard, G.
- Boutwell, P. W.** See Kemmerer, K. S.
- Bowden, S. T.** Constant temperature preheater, 1930, 531.
- The colorimetric determination of triaryl carbinols, 1934, 618.
- Bowen, E. J.** Light filters for the mercury lamp, 1935, 201.
- Bowers, A. D.** See Wiley, R. C.
- Bowles, T. H.** See Fox, J. J.
- Bowman, J. R., and McKinnis, R. B.** Pentose and uronic acid content of orange albedo and an arabinogalacturonic acid derived from orange pectin, 1930, 336.
- Boycott, A. E., and Cameron, G. R.** Manganese in foodstuffs, 1931, 55.
- Boyd, J. H.** See Oberseider, J. L.
- Boyd, J. I.** See Roe, J. H.
- Boyd, T. A.** See Lovell, W. G.
- See also Mulligan, M. J.
- Boyd, W. F.** See May, C. E.
- Boyd, W. J.** Determination of tryptophane by means of *p*-dimethylaminobenzaldehyde, 1929, 354.
- Boyer, E. A.** Bacteriological study of ham souring, 1927, 98.
- See also Kerr, R. D.
- Boyer, S.** Gallium-in-quartz thermometer graduated to 1000° C., 1926, 110.
- Boys, Sir C. V.** The Natural Logarithm (Review), 1935, 434.
- Bracaloni, L.** See Vita, G.
- Bracewell, M. F., Hoyle, E., and Silva, S. S.** Antiscorbutic vitamin in apples, 1930, 766.
- Brackett, R.** See Gemmill, R.
- Bradfield, A. E.** Fractional distillation under reduced pressure, 1935, 202.
- Thermo-regulator for heating and cooling baths, 1935, 202.
- Bradley, H. F.** Modification of Low's short iodide method for copper, 1929, 63.
- Bradley, T. J.** A Laboratory Manual of Qualitative Chemical Analysis (Review), 1928, 308.
- Bradley, W. M.** See Foote, H. W.
- Bradshaw, W. N.** See Clarke, S. G.
- Bradt, W. E., and Lyons, R. F.** Determination of selenium in organic compounds, 1926, 643.
- Bradway, E. M., and Mattill, H. A.** Association of fat-soluble vitamins and anti-oxidants in plant tissues, 1935, 111.
- Brady, F. L.** The corrosion of lead in buildings, 1935, 321.
- Brady, F. L., and McConnell, F. J.** The determination of free lime in hydraulic cement, 1927, 344.
- Brady, O. L., and Elsmie, G. V.** The use of 2 : 4 dinitrophenylhydrazine as a reagent for aldehydes and ketones, 1926, 77.
- Bragagnolo, G.** Detection of eggs in food pastes, 1933, 410.
- Bragg, Sir W. H.** The Structure of an Organic Crystal, 1929, 130.
- Brandl, A.** See Strache, H.
- Brandl, O.** See Moser, L.
- Branson, V. C.** Report of Government Analyst for Hong-Kong for the year 1932, 1934, 283.
- Brantner, H.** See Hecht, F.
- Brantner, H., and Hecht, F.** Apparatus for micro-electrolysis, 1934, 204.
- Micro-electrolytic determination of lead, 1934, 204.
- Brash, W.** Detection of chloride in presence of other halides, 1933, 686.
- Brastow, W. C.** See Ogburn, S. C.
- Braudo, K.** See Rakusin, M. A.
- Brauer, K.** Detection of resins, especially in linseed oil varnishes, 1926, 422.
- Typical reactions of phenols, 1926, 534.
- Braun, K., and Walter, E.** Determination of sugar in soap and soap preparations, 1929, 767.
- Braunsdorf, K.** Evaluation of honey on the basis of the diastase content, 1931, 539.
- Brawley, D. J.** See Crockford, H. D.
- Brazier, M. A. B.** New method for the separation of the products of protein hydrolysis, 1930, 705.
- Bredbach, F.** Helch's reactions for pilocarpine, 1933, 625.
- Bredemann, G., and Nerling, O.** Quantitative determination of the composition of potato starch according to size of granule, 1930, 220.
- Brekke, V.** See Outhouse, J.
- Brémond, E.** See Fabre, H.

- Brenneis, H. J.** Qualitative micro-electrolysis with a small electrode, **1931**, 618.
- Bretschger, M. E.** See Applebaum, S. B.
- Bretschneider, R.** See Elbe, K.
- Brewer, C. M., and Ruehle, G. D. A.** Limitations of phenol coefficients of coal-tar disinfectants, **1931**, 330.
- Brewer, F. M.** See Papish, J.
- Brewster, F.** Contested Documents and Forgeries, **1933**, 314.
- Bridge, J. C.** Report of the Senior Medical Inspector of Factories and Workshops for **1933**, **1934**, 626.
- Bridge, S. W.** See Stephenson, J. E.
- Bridges, R. W.** See Churchill, H. V.
- Briggs, D. G.** Practical Glass Manipulation (Review), **1926**, 601.
- Bright, H. A.** Determination of zinc in steel, **1934**, 572.
- See also Redmond, J. C.
- Bright, H. A., and Fowler, R. M.** Determination of aluminium in nitriding steels by the use of 8-hydroxyquinoline, **1933**, 498.
- Bright, H. A., and Lundell, G. E. F.** Determination of carbon in high sulphur steels by direct combustion, **1931**, 205.
- Bright, T. B.** Microscopical examination of cotton hairs, **1926**, 593.
- Brighton, T. B., and Dice, C. M.** Purification of common salt (American), **1931**, 408.
- Brindle, H.** Comparison of the absorptive power of medicinal charcoals, **1928**, 501.
- Test for the activity of medicinal and other charcoals, **1928**, 500.
- Volumetric determination of mercuric chloride by Rupp's method, **1932**, 737.
- Briner, E., and Pailhard, H.** Determination of ozone in air, **1935**, 274.
- Brintzinger, H.** Rapid method for the separation of lead and silver, **1927**, 363.
- Brintzinger, H., and Jahn, E.** Separation of phosphoric acid, calcium and magnesium, **1934**, 646.
- Brintzinger, J. and H.** Detection of barium, strontium and calcium in systematic qualitative analysis, **1933**, 715.
- Briskin, O. M.** See Dychno, M. A.
- British Drug Houses, Ltd.** "Analar" Standards for Laboratory Chemicals (Review), **1935**, 63.
- Britton, H. T. S.** Conductometric Analysis, (Review), **1934**, 854. See also list of Errata.
- Hydrogen Ions: Their Determination and Importance in Pure and Industrial Chemistry (Review), **1929**, 687; 2nd Ed., **1932**, 543.
- Review of Bolam's *The Donnan Equilibria*, **1932**, 542.
- Review of Crocker and Matthews' *Theoretical and Experimental Physical Chemistry*, **1928**, 242.
- Review of Debye's *Polar Molecules*, **1930**, 71.
- Review of Haas's *Quantum Chemistry*, **1931**, 275.
- Review of Macdougall's *Thermodynamics and Chemistry*, 2nd Ed., **1927**, 560.
- Review of Mellor's *Comprehensive Treatise on Inorganic and Theoretical Chemistry*. Vol. VI, **1926**, 113; Vol. VII, **1927**, 309; Vol. VIII, **1928**, 511; Vol. IX, **1929**, 377; Vol. X, **1930**, 772; Vol. XI, **1931**, 838; Vol. XII, **1933**, 251.
- Britton, H. T. S.** Review of Newman and Searle's *General Properties of Matter*, **1933**, 312.
- Review of Scheibe, Mark and Ehrenberg's *Physikalische Methoden der Analytischen Chemie*. Vol. I, **1935**, 63.
- Review of Sugden's *The Parachor and Valency*, **1930**, 226.
- Review of Swarts' *Cours de Chimie Inorganique*, 4th Ed., **1927**, 369.
- Britton, H. T. S., and Robinson, R. A.** Separation of tantalum from niobium by the tannin method, **1933**, 368.
- Brode, W. R.** See Scribner, B. W.
- Brode, W. R., and Magill, M. A.** Critical study of the antimony trichloride colour test for vitamin A, **1931**, 546.
- Brohm, K.** See Luning, O.
- Bromley, H. A.** Notes on the technique of the glass electrode, **1935**, 533.
- Review of Stevens' *The Paper Mill Chemist*, 3rd Ed., **1927**, 373.
- The action of ultra-violet light on gelatin in paper, **1933**, 29.
- Bromley, H. A., and Causser, L. W.** Potentiometric determination of acidity in writing inks, **1930**, 277.
- Bromley, H. A., and De Waele, A.** The electro-metric determination of the acidity of writing inks, **1926**, 567.
- Bronitsky, J.** See Drake, N. L.
- Brookbank, E. B.** See Kobe, K. A.
- Brophy, D. H.** Electrolytic determination of cobalt, **1931**, 831.
- Brose, H. L.** Finger-print detection, **1934**, 25.
- Brotzu, G.** Detection of the incipient decomposition of meat, **1932**, 536.
- Brown, A. E.** Appointment as Agricultural Analyst for City and Port of London, **1930**, 277.
- Brown, B. E.** Determination of carbon and nitrogen on the same soil sample, **1927**, 487.
- Brown, D. J.** Method for the electrolytic separation of metals, **1926**, 267.
- Brown, F. E., and Snyder, J. E.** Vanadium oxytrichloride as a solvent, **1926**, 50.
- Brown, H.** Determination of uric acid in blood, **1926**, 357.
- Brown, J. B.** Highly unsaturated fatty acid of liver lipids. Preparation of arachidonic acid, **1929**, 113.
- Nature of the highly unsaturated fatty acids stored in the lard from pigs fed on menhaden oil, **1931**, 187.
- See also Ault, W. C.
- See also Bosworth, A. W.
- Brown, J. B., and Deck, E. M.** Arachidonic acid in lard, **1930**, 335.
- Brown, J. B., and Sheldon, C. C.** Highly unsaturated fatty acids in the oils of some common fowls and in animal fats, **1934**, 831.
- Brown, J. W.** Review of Emich's *Microchemical Laboratory Manual*, **1932**, 741.
- Review of Emich's *Mikrochemisches Praktikum*, 2nd Ed., **1931**, 138.
- Review of Feigl's *Qualitative Analyse mit Hilfe von Tüpfelreaktionen*, **1931**, 492.
- Review of Friedrich's *Die Praxis der Quantitativen Organischen Mikroanalyse*, **1933**, 725.

- Brown, J. W.** Review of *Mikrochemie*: the Pregl Festschrift, 1930, 358.
 — Review of Pregl's *Die Quantitative Organische Mikroanalyse*, 1930, 304.
 — Review of Pregl's *Quantitative Organic Micro-Analysis*, 1930, 776.
 — Review of Weygand's *Quantitative Analytische Mikromethoden der Organischen Chemie in Vergleichender Darstellung*, 1932, 415.
 — Temperatures of sublimation of twelve amino-acids, 1933, 117.
 — See also Haynes, D.
- Brown, J. W., and Edwards, A.** Review of von Philipsborn's *Tabellen zur Berechnung von Mineral- und Gestein-analysen*, 1933, 429.
- Brown, M. H., and Reedy, J. H.** Determination of lithium, 1930, 651.
- Brown, W. B., and Farmer, E. H.** Highly unsaturated acids from oiticica oil (*Licania rigida*), 1935, 570.
- Brown, W. H.** Review of Fowweather's *A Handbook of Clinical Chemical Pathology*, 1929, 775.
- Brown, W. J.** Determination of tellurium in tellurium-lead alloys, 1935, 54.
- Brown, W. L.** The red pigment in the "perfection" pimento (*Capsicum annum*), 1935, 625.
 — See also Holley, K. T.
- Browne, C. A.** Obituary of H. W. Wiley, 1930, 728.
 — The Life and Chemical Services of Frederick Accum (Review), 1926, 276.
 — The Spontaneous Combustion of Hay, 1930, 604.
 — See also Phillips, M.
- Browne, C. A., and Skinner, W. W.** Editors of Wiley's *Principles and Practice of Agricultural Analysis*. Vol. II, Fertilisers and Insecticides, 3rd Ed. (Review), 1933, 57.
- Browne, O. H., and Reid, E. E.** Reactions of lead tetra-ethyl, 1927, 299.
- Browning, B. L.** See Schrenk, W. T.
- Browning, E.** Determination of thallium after oxidation with bromine, 1932, 797.
 — The Vitamins (Review), 1932, 132.
- Brubaker, H. W., Van Blarcom, H. S., and Walker, N. H.** Determination of iodine in natural waters, 1926, 471.
- Bruce, H. D.** Photometric method of measuring the covering power of paints, 1926, 371.
- Bruce, H. M.** See Askew, F. A.
- Bruce, W. F.** A pre-heater for use in the Pregl micro-combustion of carbon and hydrogen, 1935, 844.
 — Determination of citrate, 1934, 713.
- Brückner, H.** Decomposition of phenolsulphonic acids and purification of phenols by the sulphonic acid separation method, 1929, 189.
- Brückner, K.** Determination of selenium in pyrites, 1933, 783.
- Brückner, V.** Micro-determination of methoxyl, 1933, 178.
- Bruère, P.** Colorimetric determination of manganese in flours and breads, 1934, 492.
 — Colorimetric micro-reactions of the glutogenic protides and cellulosic gels of the wheat grain, 1931, 66.
 — Stable colorimetric scales for the measurement of pH values, 1926, 424.
- Bruère, P., and Fourmont, A.** Rediffusion reactions of fats, 1933, 319.
- Brugeas, C.** New reaction of aconitine and of the total alkaloids of aconite, 1932, 468.
- Brüggemann, W.** Rapid determination of tungsten, chromium and vanadium in high-speed tool steel, 1930, 155.
- Bruillet, A.** See Leroide, J.
- Brukl, A.** Analytical chemistry of gallium (Part 3), 1930, 218.
 — Determination of gallium, 1931, 832.
 — See also Moser, L.
- Brukl, A., and Maxymowicz, W.** Separation and determination of tellurium, 1926, 369.
- Brüllau, M.** Truffle sausage containing *Tubiporus rufus*, Schiff, 1933, 615.
- Brunel, A.** Presence of allantoinase in fungi. (Test for glyoxylic acid), 1931, 264.
 — See also Fosse, R.
- Bruni, G., and Levi, T. G.** Nature of matured rubber. II, 1927, 491.
- Brüning, A.** See Juckenack, A.
- Brüning, A., and Schnetka, M.** Detection of small amounts of pyridine, particularly in burnt wood, 1934, 432.
- Brunot, F. R.** Osmium tetroxide poisoning, 1931, 451.
- Bruson, H. A., Sebrell, L. F., and Calvert, W. C.** Reactions of rubber hydrocarbons with metallic halides, 1927, 728.
- Brussoff, A., Reinartz, F., and Schloemer, A.** Bacterial activity in the hot springs at Aachen and Aachen-Burtscheid, 1934, 55.
- Bryan, J. M.** The sulphide stain method for determining small quantities of "volatile sulphur" in sugar, 1928, 589.
- Brydowna, W.** Action of tungsten hexachloride on phenyl magnesium iodide, 1927, 105.
- Bubb, J. C.** Determination of lead and copper in Bordeaux and lead arsenate mixtures, 1931, 551.
- Buchan, J. L.** The determination of sulphide in zinc sulphide by the expulsion method, 1933, 682.
 — See also Francis, A. G.
- Buchanan, J. G.** See Levine, M.
- Bucherer, H. T., and Meier, F. W.** Simultaneous volumetric determination of lead and bismuth, 1931, 336.
- Büchner, C.** See Kreutz, A.
- Buchner, G.** Behaviour of beeswax toward trichlorethylene at ordinary temperature, 1928, 397.
- Buchwald, K. W.** See Reinhard, M. C.
- Budagian, F.** Detection of hydrogen sulphide and the evaluation of the degree of freshness of flesh products, 1933, 720.
- Budagian, F. E., and Pawlow, W. P.** Influence on butter of salts associated with common salt, 1930, 283.
- Budel, M., and Charaux, C.** Primeverose and rhamnucogenol, the products of enzymic hydrolysis of rhamnicoside, 1926, 41.
- Budhalakoti, U. D., and Mukherji, K. C.** Thiocyanogen value of Indian butter-fat (ghee), 1935, 767.
- Budnikoff, P. P.** Determination of ferrocyanide, 1928, 459.

- Buehler, J. A.**, and **Calkoe, J. D.** Identification of amines as 2, 4-dinitrobenzoates, 1934, 769.
- Buehrer, T. F.**, and **Schupp, O. E.** Reaction between elementary phosphorus and potassium iodate and its utilisation in the volumetric determination of phosphorus, 1927, 171.
- Button, W. H.** Characteristics of cider, 1927, 649.
- Bulliard, H.** See Giroud, A.
- Bullock, B.**, and **Kirk, P. L.** Volumetric micro-determination of chloride and potassium, 1935, 497.
- Bullock, F. C.** Obituary of S. F. Burford, 1935, 792.
- Report of the City Analyst for Leicester for the year 1930, 1931, 300; for 1931, 1933, 95; for 1932, 1934, 31; for 1933, 1934, 623; for 1934, 1935, 686.
- Sale of bismuth tablets: a question of warranty. (Legal Notes), 1930, 752.
- Bullock, K.** Chemical constituents of the oleo-resin and fatty matter of Indian valerian root, 1926, 525.
- Bulow, C.**, and **Dick, W.** β -Methyl-umbelliferone as a fluorescent indicator, 1929, 63.
- Bunce, E. H.** Estimation of the extract of coffee and chicory, 1933, 532.
- Investigations on milk standards under the Burma Food and Drugs Act, 1928, 1932, 449.
- Report on the Burma Food and Drugs Act, 1928, 1933, 759.
- The detection and determination of sesame oil when mixed with other edible oils, with particular reference to arachis oil, 1930, 567.
- Bunce, E. H.**, and **Moitra, G. C.** The detection of adulteration of Indian coffee, with special reference to the extract method, 1932, 708.
- Bunker, H. J.** See Thaysen, A. C.
- Burckhardt, E.** See Stoll, A.
- Burford, S. F.** A forerunner of *The Analyst*, 1926, 141.
- Report of the City Analyst for Leicester for the year 1926, 1927, 592.
- Burford, W. A.**, and **Bader, W.** Determination of graphite and combined carbon in pig iron, 1927, 104.
- Burgess, G. K.** The organisation and work of the United States Bureau of Standards, 1926, 319.
- Burgess, L.** Microbiology of wool, 1928, 554.
- Burgess, M. J.**, and **Wheeler, R. V.** The limits of inflammability of firedamp and air. (Safety in Mines Research Board Report, No. 15), 1926, 302.
- Burgwitz, G. K.** The black yeasts, 1928, 553.
- Burke, A. D.** See Heller, V. G.
- Burke, T. E.** See Tucker, J. M.
- Burker, E.**, **Milgowskaja, W. L.**, and **Feldmann, R. W.** Determination of small quantities of rubidium, 1930, 465.
- Burlage, H. M.** Assay of santonin, 1931, 752.
- Burlage, H. M.**, and **Smith, A. C.** Assay of santonin-bearing drugs, 1932, 725.
- Burmans, J.** Determination of nicotine in oriental tobaccos, 1931, 53.
- Burmester, B. R.** See Almquist, H. J.
- Burn, J. H.** The physiological action of aluminium, 1932, 428.
- See also Bijlsma, U. G.
- See also Treavan, J. W.
- Burnall, M.** See Dadswell, H. E.
- Burnet, J. M.** See Claremont, C. L.
- Burns, R. H.** Antimony compounds extracted from enamel-ware by citric acid solutions, 1935, 220.
- Burr, G. O.** See Evans, H. M.
- Burraston, W. G.** Filling device for upward-flow viscometers, 1932, 309.
- Burrell, R. C.**, and **Walter, E. D.** Saponin from soya-bean, 1935, 186.
- Burstein, A. L.**, and **Frum, F. S.** Determination of ammonium salts as an indication of the quality of milk, 1935, 699.
- Kinetics of milk catalase on heating, 1932, 116.
- Burtis, M. P.** See Quinn, E. J.
- Burton, D.** Determination of copper in tanning extracts, 1931, 335.
- See also Atkin, W. R.
- Burton, J. I.** See McCandless, J. M.
- Bushey, M.** See Wikoff, H. L.
- Bushill, J. H.** See Lampitt, L. H.
- Bushill, J. H.**, **Lampitt, L. H.**, and **Baker, L. C.** Determination of cystine. Use of the Zeiss photometer, 1934, 835.
- Buston, H. W.** A micro method for the determination of uronic anhydride groups in pectic substances, 1932, 220.
- Isolation of mesaconic acid from cabbage leaves, 1929, 239.
- Busvold, N.** Analysis of red lead and lead dioxide, 1932, 268.
- Buswell, A. M.** Revision of Mason's *Examination of Water, Chemical and Bacteriological*, 6th Ed. (Review), 1932, 277.
- Butler, A. M.**, and **Tuthill, E.** Application of the uranyl zinc acetate method of determining sodium in biological material, 1931, 764.
- Butler, C. L.**, and **Cretcher, L. H.** Composition of cherry gum, 1932, 42.
- Composition of gum arabic, 1929, 477.
- Butterfield, C. T.**, and **Purdy, W. C.** Interrelationships of plankton and bacteria in natural purification of polluted water, 1931, 330.
- Büttner, G.**, and **Miermeister, A.** Evaluation of crab preparations and detection of crab ingredients, 1929, 546.
- Manganese contents of cows' milk, beef, and certain other foods, 1933, 615.
- Buxton, J.**, and **Lucas, H. J.** Analysis of brominated cresols, 1928, 173.
- Byers, H. G.** See Dudley, H. C.
- Byers, H. G.**, and **Knight, H. G.** Selenium in soils in relation to its presence in vegetation, 1935, 774.
- Byrd, R. M.** See Dobbins, J. T.
- Byron, F. E.** See Blair, R. W.
- Bywaters, H. W.** Cocoa and Chocolate Manufacture (Review), 1931, 69.
- Bywaters, H. W.**, **Maggs, F. T.**, and **Pool, C. J.** The determination of illipé butter in chocolate, 1927, 324.

C

- Cady, O. H., and Luck, J. M.** Chemistry of vitamin A. (Action of chemical agents), 1930, 401.
- Cady, L. L.** See Cone, W. H.
- Cahn, R. S., and Boam, J. J.** Constituents of derris resin, 1935, 260.
— Determination of rotenone in derris root and resin, 1935, 260.
- Caines, C. M.** Assay of stramonium leaves and tincture of stramonium, 1931, 52.
- Caldwell, M. L., and Doebbeling, S. E.** Study of the concentration and properties of two amylases of barley malt, 1935, 712.
- Caldwell, M. L., and Hildebrand, F. C.** Method for the direct and quantitative study of amylolytic activity of amylases, 1935, 834.
- Caley, E. C.** Volumetric determination of sodium, 1930, 412.
- Caley, E. R.** Analytical Factors and their Logarithms (Review), 1933, 312.
— Detection and determination of small quantities of lithium, 1930, 597.
— Determination of small amounts of sodium by the magnesium uranyl acetate method, 1932, 273.
— Rapid colorimetric estimation of potassium, 1931, 273.
— Test for oxalic acid, 1932, 795.
— The Stockholm papyrus, 1927, 615.
— See also Furman, N. H.
- Calfee, J. D.** See Buehler, C. A.
- Calingaert, G.** See Edgar, G.
- Callaghan, E. B.** See Morris, S.
- Callan, T.** Determination of carbon dioxide in carbonates, 1927, 222.
- Callan, T., and Henderson, J. A. R.** A new reagent for the colorimetric determination of minute amounts of copper, 1926, 650.
- Callan, T., and Jones, R. T. P.** A new type of mercury cathode cell for the determination of minute quantities of arsenic, 1930, 90.
- Callan, T., and Strafford, N.** The examination of dyed leather in cases of alleged dermatitis, 1931, 625. See also list of Errata.
- Callan, T., Henderson, J. A. R., and Strafford, N.** Determination of carbon disulphide in benzene, 1932, 590.
- Callaway, J., and Bennett, T. N.** Esters as adulterants of cassia oil and their detection, 1932, 58.
- Callaway, J., and Reznick, S.** Determination of small quantities of benzyl alcohol, 1933, 494.
- Callendar, L. H.** Effect of heat-treatment of the metal on the determination of silicon in aluminium, and the loss of volatile silicon compounds in the mixed acid method of solution of the metal, 1933, 81.
— The determination of graphitic silicon in siliceous residue, 1933, 580.
— The determination of silicon in aluminium, 1932, 500.
- Callow, A. B.** Food and Health. An Introduction to the Study of Diet (Review), 1928, 682.
- Callow, E. H.** Gas storage of pork and bacon. I. Preliminary experiments, 1932, 384.
— The presence of formaldehyde in wood smoke and in smoked foodstuffs, 1927, 391.
- Callow, R. H.** The effect of certain salts on fermentation in dough, 1934, 156.
- Callow, R. K.** See Askew, F. A.
— See also Rosenheim, O.
- Calvert, H. T.** Report of Director of Water Pollution Research, 1934, 282.
- Calvert, R.** Diatomaceous Earth (Review), 1930, 661.
- Calvert, W. C.** See Bruson, H. A.
- Calvery, H. O.** Chemistry of tea leaves. II, Isolation of guanine nucleotide and cytosine nucleotide, 1927, 354.
— Note on the enzyme uricase, 1927, 422.
— Some analyses of egg-shell keratin, 1933, 291.
- Calvery, H. O., and Jones, W.** The nitrogenous groups of nucleic acid, 1927, 426.
- Cambier, R., and Marcy, F.** Composition of the air in Paris streets, 1928, 349.
- Cameron, A. M., and Dow, W. T.** Application of Ridsdale's modification of Pemberton's method for the volumetric determination of phosphoric anhydride to fertilisers, 1927, 576.
- Cameron, A. T.** A Text-book of Biochemistry for Students of Medicine and Science (Review), 1928, 358; 2nd Ed., 1929, 692.
- Cameron, A. T., and White, F. T.** A Course in Practical Biochemistry, 1930, 232.
- Cameron, D. H.** Determination of hydrogen ion concentration by a modified colorimetric method, 1929, 365.
- Cameron, E. J.** See Smith, H. R.
- Cameron, G. R.** See Boycott, A. E.
- Cammack, M. L.** See Sherman, H. C.
- Campbell, F. L.** Quantitative toxicological investigations on mandibulate insects, 1926, 313.
- Campbell, J. R., and Gray, T.** Combustion of methane by means of copper oxide, 1931, 59.
— Influence of various catalysts in promoting the oxidation of methane by means of copper oxide, 1931, 60.
— Oxidation of various gases by means of copper oxide, lead acetate and cobalt oxide, 1931, 60.
- Campbell, S. G.** See Rayner, A.
- Campbell, W. G.** Chemistry of white rots of wood. II, 1932, 263; III, 1933, 236.
— Starch and related polysaccharides of certain hard-woods. I. The preparation and properties of oak and walnut starch, 1935, 572.
- Campbell, W. G., and Taylor, K. F.** Chemical changes induced in wood by saturated steam under pressure, 1933, 495.
- Campbell, W. G., and Wiertelak, J.** Chemistry of the white rots of wood. The effect on wood substance of *Ustilina vulgaris* Tu., 1935, 629.
- Campbell, W. R., and Hanna, M. I.** Determination of fructose, sucrose and inulin, 1926, 582.
- Canal, H.** See André, E.
- Canals, E., and Médaille, A.** Radioactivity of musts and wines, 1932, 592; 1933, 644.
- Candy, H. C. H.** Some newly-discovered Stanzas written by John Milton (Review), 1926, 222.
— See also Luff, A. P.
- Cannan, R. K.** See Richardson, G. M.
- Canniff, T.** See McClendon, J. F.
- Cantzler, A., and Rothschild, S.** Determination of water in organic substances by means of calcium carbide, 1927, 606.

- Capen, R. G.** See Davidson, J.
- Cappelaere, J.** See Poldowski, M.
- Capper, N. S.** Alleged contamination of carotene by vitamin A, 1930, 459.
— Carotene and vitamin A. Transformation of carotene into vitamin A, as shown by a study of the absorption spectra of rat-liver oils, 1930, 710.
- Capper, N. S., McKibbin, J. M. W., and Prentice, J. H.** Conversion of carotene into vitamin A by fowls, 1931, 473.
- Capus, L.** See Kohn-Abreast, E.
- Card, S. T.** See Pemberton, E. S.
- Carletti, O.** Reaction between phenacetin and acetaldehyde, 1928, 292.
— Reaction for α -naphthol, 1930, 463.
- Carlier, P.** See Delaville, M.
- Carlson, W.** See Pagel, H. A.
- Carlsson, V.** See Eddy, W. H.
— See also Kohman, E. F.
- Carlyle, E. C.** See Frap, G. S.
- Carman, G. G.** See Mitchell, H. H.
- Carneiro, P. de B.** See Bertrand, G.
- Carothers, W. H.** Editor of *Organic Syntheses*. Vol. XIII (Review), 1933, 788; Vol. XV, 1935, 787.
- Carpeniseanu, G.** Determination of pyruvic acid, 1934, 298.
- Carpenter, T. M., and Fox, E. L.** Absence of stratification and rapidity of mixing of carbon dioxide in air samples, 1927, 493.
— Gas analysis apparatus modified for determination of methane in metabolism experiments, 1926, 636.
- Carpenter, T. M., Fox, E. L., and Serque, A. F.** Acetone as a control substance for respiration and gas analysis apparatus, 1929, 427.
- Carr, C. J., and Krafft, J. C.** Fate of dulcitol and dulcitan in the animal body, 1934, 834.
- Carr, F. H.** Insulin and its manufacture, 1926, 597.
— Review of Munch's Bioassays: A Hand-book of Quantitative Pharmacology, 1931, 490.
- Carrasco, O., and Sartori, E.** Action of heat on tomato conserve, 1932, 253.
- Carré, M. H.** See Emmett, A. M.
- Carré, P.** Iodimetric determination of phosphorous acid, and the use of sodium hydrogen carbonate in iodimetry, 1928, 305.
- Carré, P., and Liebermann, D.** Thionylaniline as a reagent in organic chemistry and its use for the identification of acids by the formation of anilides, 1933, 491.
— Thionylaniline as an organic reagent and its use for identifying acids as anilides, 1932, 537.
- Carrick, C. W.** See Hauge, S. M.
- Carrje, M. S.** Essential oil of *Dacrydium cupressinum*, 1932, 795.
- Carrière, E., and Lautié, R.** Volumetric determination of molybdenum with permanganate, 1932, 407.
- Carrière, J. F.** Detection of linseed oil in soybean oil, 1930, 64.
- Carter, C. L.** Chemical investigation of mutton-bird oil. Part II, Comparison of stomach oil and body fat, 1928, 165.
- Carter, E. K.** See Gould, A. G.
- Carter, G.** Alcoholic concentration in urine as a test of intoxication, 1927, 615.
- Carter, J., and Pollard, G.** An Enquiry into the Nature of Certain Nineteenth Century Pamphlets (Review), 1934, 655.
- Carter, K. L.** See Clark, G. W.
- Carter, R. M.** Separation and analysis of the volatile solvents and thinners of lacquers, 1927, 102.
- Carter, W. A.** See Ling, A. R.
— See also Norris, F. W.
- Cartledge, G. H.** Inorganic Physical Chemistry (Review), 1926, 217.
- Cary, C. A.** Colorimetric method for the determination of free tryptophane in blood, 1928, 501.
- Caspar, E.** See Beck, K.
- Casparis, P.** Adulteration of liquorice with masticogna, 1926, 465.
- Cassar, H. A.** Determination of isopropyl alcohol in the presence of acetone and of methyl-ethyl ketone in the presence of secondary butyl alcohol, 1927, 725.
- Cassoni, B.** See Szegoe, L.
- Castel, —.** See Astruc.
- Castiglioni, A.** Colour reaction for nitrites, 1933, 112.
— Differentiation of expressed cocoa butter from that extracted with solvents, 1935, 257.
— Examination of saffron and of rhubarb by means of ultra-violet light, 1933, 249.
— Volumetric determination of free sulphur, 1933, 114.
- Catlin, L. J., and Starrett, J. E.** Determination of lead tetraethyl in gasoline, 1930, 771.
- Cattelain, E.** Determination of iodine by means of hydrazine sulphate, 1926, 647.
— Hydrazine sulphate in iodimetry, 1926, 51.
— New method for the determination of mercury in mercuric cyanide, 1931, 132.
— Sensitive reaction for benzoylacrylic acid and its use for characterising phenols, 1927, 360.
— Use of hydrazine sulphate for the preparation of ammoniacal cuprous chloride, 1926, 423.
— Use of hydrazine sulphate for the standardisation of iodine solutions, 1926, 317.
— See also Bougault, J.
- Caulfield, T. H.** See Gibson, D. T.
- Caulkin, H. A.** Optical rotation of honey, 1927, 418.
- Causser, L. W.** See Bromley, H. A.
- Cave, H. W.** See Hughes, J. S.
- Caven, R. M.** Atoms and Molecules (Review), 1928, 309.
- Caven, R. M., and Cranston, J. A.** Symbols and Formulae in Chemistry (Review), 1928, 677.
- Cazala, —.** See Clogne, R.
- Celsi, S. A.** Fluorescence reaction of malic acid, 1926, 592.
- Cerchez, V., and Panaitescu, C.** Determination of water of crystallisation. Preparation of anhydrous oxalic acid and sodium sulphate, 1933, 419.
- Chabre, P.** See Chevallier, A.
- Chaikoff, I. L.** See Bee, A. H.
- Chakmakjian, H. H.** See Reis, F.
- Chakravorty, P. N., Mookerjee, H. C., and Guha, B. C.** Vitamin A in fish-liver oils, 1933, 771.
- Chalk, L. J.** The determination of small amounts of copper in the presence of iron, 1930, 187.
- Challenger, —.** See Beagall.

- Challenger, F.** Biological methylation of compounds of arsenic and selenium, **1935**, 713.
- Challenger, F., Higginbottom, C., and Ellis, L.** Formation of organo-metalloidal compounds by micro-organisms. I, **1933**, 235.
- Chalmers, C. H.** Significance of true *Bacillus coli* (*B. coli communis*) and *Bacillus lactis aerogenes* in samples of milk, **1934**, 296.
- Chalmers, F. G. D.** Appointed additional Public Analyst for County Borough of Coventry, **1933**, 29; for Leamington Spa and Borough of Warwick, **1933**, 91; for County Borough of Wolverhampton, **1934**, 344.
- Chalmers, A.** See Herissey, H.
- Chambers, J. S.** See Hurd, L. C.
- Chamot, E. M., and Mason, C. W.** Handbook of Chemical Microscopy (Review). Vol. I, **1930**, 470; Vol. II, **1931**, 559.
- Chandelle, R.** Adsorption of phosphoric acid by stannic sulphide, **1929**, 769.
- Chandlee, G. C.** See Craig, K. A.
— See also Knapper, J. S.
- Chandrasena, J. P. C.** Chemistry of the products of *Cocos nucifera* Part I, **1931**, 48.
- Chaney, A. L., and Lombard, C. F.** Analysis of nitrous oxide by solubility in water, **1932**, 410.
- Chang, C. Y.** See Schuette, H. A.
- Channon, H. J.** Biological significance of the unsaponifiable matter of oils. III, Fish-liver oils, **1928**, 293.
— See also Drummond, J. C.
- Chanutin, A.** Fate of creatine when administered to man, **1926**, 256.
- Chapman, A. Chaston.** New species of oidium, **1930**, 57.
— Oil of *Centrothorus granulatus*, **1927**, 622.
— On the presence of compounds of arsenic in marine crustaceans and shell fish, **1926**, 548.
— Standardisation of the strength of the organism (*Bacterium C*) used in the Chapman biological method for the determination of the preservative power of hops, **1930**, 57.
— The detection and determination of glycerin in tobacco, **1926**, 382.
— The examination of foodstuffs for preservatives, **1927**, 215.
— The Fungi Imperfecti, and a further plea for an Institute of Industrial Micro-Biology, **1926**, 319.
- Chapman, A. C., and Linden, H.** On the presence of lead and other metallic impurities in marine crustaceans and shell fish, **1926**, 563.
- Chapman, G. W.** Easily constructed form of micro-colorimeter, **1930**, 443.
- Chapman, R. N.** Possibilities and limitations of chloropicrin as a fumigant for cereal products, **1926**, 262.
- Charaux, C.** See Budel, M.
- Charles, A. G.** See Cohen, W. E.
- Charles, E.** Industrial analysis of glacial acetic acid, **1932**, 190.
- Charles, R. P.** Appointed Additional Public Analyst for the Borough of Poole, **1934**, 689; Agricultural Analyst for County Borough of Bournemouth, **1935**, 35; Public Analyst for County Borough of Bournemouth, **1933**, 756.
- Charmandarjan, M. O.** Application of ammonium oxalate in systematic qualitative analysis, **1930**, 153.
- Charonnat, R.** See Delaby, R.
- Chastellain, F.** Determination of ammoniacal nitrogen in manures, **1926**, 261.
- Châtaway, H. D.** Fractionation of linseed oil at 293° C., **1927**, 490.
- Chater, W. J.** Certain vegetable tannins and their conversion into anthocyanidins, **1935**, 571.
- Chattaway, F. D., and Parkes, G. D.** Determination of nicotine, **1930**, 202.
- Chatterji, D. N.** Applicability of the mydriatic test to the detection of datura in decomposed viscera, **1926**, 344.
— Report of the Chemical Examiner for the United Provinces of Agra and Oudh for the year 1925, **1926**, 349; for 1926, **1927**, 476; for 1928, **1929**, 474; for 1929, **1930**, 694.
— Tests for madar juice, (*Calotropis gigantea*) and for snake venom, **1930**, 683.
- Chen, K. K., and A. L.** Alkaloids of han-fang-chi, **1935**, 483.
- Chéramy, P., and Lobo, F.** Extraction of barbituric acid derivatives from viscera by means of acetone, **1935**, 50.
— Rapid method for the identification of barbiturates in blood, **1935**, 52.
- Cheraskowa, E., and Weissbruth, L.** New method for the separation of selenium from sulphur, **1935**, 781.
- Cherbuliez, E., and Ansbacher, S.** Determination of copper in organic materials, **1930**, 345.
- Cherbuliez, E., and Herzenstein, H.** Analysis of reducing sulphur acids, **1935**, 121.
- Cherbuliez, E., and Schneider, M. L.** Non-homogeneity of casein. Fractionation by means of ammonium chloride, **1932**, 464.
- Chernoff, L. H.** Monobromoguaiacol carbonate. Determination of guaiacol carbonate, **1929**, 756.
- Chesny, H. H.** See Weatherby, L. S.
- Chevallier, A., and Chabre, P.** Determination of vitamin A in oils by a spectrophotometric method, **1933**, 487.
- Chevallier, A., Guillot, J., and Chabre, P.** Ultra-violet absorption of certain vegetable or animal oils, **1932**, 739.
- Chibnall, A. C.** See Hopkins, S. J.
- Chibnall, A. C., and Westall, R. G.** Determination of glutamine in the presence of asparagine, **1932**, 393.
- Chibnall, A. C., Piper, S. H., and Others.** Wax constituents of the apple cuticle, **1932**, 258.
- Child, B.** Testing of Bituminous Materials, **1935**, 130.
- Child, R.** Seed oil of the Bael fruit tree (*Aegle marmelos*, Corr.), **1935**, 257.
- Childs, A. E., and Ball, W. C.** The determination of traces of cyanides in water, **1935**, 294.
- Chiles, H. M.** Direct Nesslerisation after Kjeldahl digestions, **1928**, 171.
- Chilowsky, C., and Perrin, F.** Distinction between natural and artificial pearls, **1926**, 53.
- Chinoy, J. J.** See Nanji, H. R.
- Chinoy, J. J., Edwards, F. W., and Nanji, H. R.** A new iodine method for the determination of starch, **1934**, 673.
— A note on the taka-diastase method for determining starch, **1934**, 671.

- Chirnoaga, E.** New indicators for argentometry, 1935, 428.
— Volumetric determination of iodide with an iodine-starch indicator, 1935, 780.
- Chirside, R. C.** Note on the determination of aluminium in nickel alloys, 1934, 278.
- Chou, T., and Adolph, W. H.** Copper metabolism in man, 1935, 561.
- Chouchak, D.** Presence of glycuronic acid in wines from mouldy or rotten vintages, 1923, 227.
- Chowdhury, K. A.** Sandalwood substitutes, 1932, 124.
- Christian, B. C.** See Cocks, L. V.
- Christian, B. C., and Hilditch, T. P.** Seed fats of some cultivated species of *Umbelliferae*, 1929, 547.
— The estimation of fully-saturated glycerides as an aid in the analysis of fats, 1930, 75.
- Christian, M. I.** Thermophilic bacteria in milk, 1931, 411.
- Christiansen, W. G.** See Jurist, A. E.
- Christie, G. H.** Review of *Allen's Commercial Organic Analysis*. Vol. V, 1927, 615.
- Christlieb, H.** See Rewald, B.
- Christman, A. A., and Randall, E. L.** Method for determination and detection of carbon monoxide in blood, 1933, 769.
- Chu, T. L.** See Han, J. E. S.
- Church, A. E.** See Norris, E. R.
- Church, M. B., Paine, H. S., and Hamilton, J.** Sugar-tolerant yeasts in chocolate-coated creams, 1927, 295.
- Church, W. H., Mack, E., and Boord, C. E.** Anti-knock materials, 1926, 365.
- Churchill, H. V., Bridges, R. W., and Lee, M. F.** Determination of beryllium in aluminium, 1931, 65.
- Cjerman, C.** See Wenger, P.
- Cjerman, Ch., and Wenger, P.** Microchemical determination of glucose, 1932, 337. See also list of Errata.
- Ciochina, J.** Determination of alkalis in ores, clays, etc., 1927, 432.
— Separation of tungsten from silica and tin, 1928, 240.
- Ciogolea, G.** Detection of carbon tetrachloride in chloroform, 1934, 500.
- Ciupka, —** Groups of extractives in coffee, 1930, 759.
- Ciurea, V.** See Bertrand, G.
- Clague, J. A.** See Fellers, C. R.
- Clare, J. L. L., and Soames, K. M.** The relative content of the fat-soluble vitamins A and D in a series of cod-liver oils, 1928, 168.
- Claremont, C. L.** A Practical Handbook of Rat Destruction (Review), 1926, 379.
- Claremont, C. L., and Burnet, J. M.** Some Common Domestic Pests, 1933, 126.
- Clark, A. H.** The alkaloids of *Ceanothus Americanus*, 1926, 355.
- Clark, A. J.** Applied Pharmacology, 4th Ed. (Review), 1932, 351.
- Clark, B. B., and Gibson, R. B.** Bicolorimetric method for the determination of methaemoglobin, 1933, 293.
- Clark, E. P.** Preparation, purification and some properties of gossypol, the toxic principle of cottonseed, 1928, 107.
- Clark, E. P.** Studies on gossypol. II, Nature of Carruth's D gossypol, 1928, 170. IV, Apogossypol, 1928, 453.
— Vieböck and Schwappach method for the determination of methoxyl and ethoxyl groups, 1932, 402.
- Clark, E. P., and Keenan, G. L.** Occurrence of dehydrodeguelin and dehydrotoxicarol in derris root, 1933, 166.
- Clark, G. L.** See Anderson, H. V.
- Clark, G. W., and Carter, K. L.** Factors involved in the reaction changes of human saliva, 1927, 551.
- Clark, J. H.** Zinc sulphide method of measuring ultra-violet radiation, and the results of a year's observations on Baltimore sunshine, 1929, 493.
- Clark, L. E.** See Ries, E. D.
- Clark, N. A.** Determination of small amounts of manganese in salt solutions, 1933, 638.
- Clark, P. B.** See Dill, D. B.
- Clark, P. C.** See Hoyt, L. F.
- Clarke, C. O.** The protection of animal fibres against clothes moths and dermestid beetles, 1929, 126.
- Clarke, H. T.** Organic Syntheses. Vol. X (Review), 1930, 721.
— See also Behr, L. D.
— See also Herbst, R. M.
— See also Taylor, E. R.
— See also Zahnd, H.
- Clarke, I. D.** See Frey, R. W.
- Clarke, S. G.** A method for the determination of small quantities of hydrogen sulphide: the determination of sulphur in small samples of steel, 1931, 436.
— A new method for the colorimetric determination of small quantities of antimony, and their separation from tin, 1928, 373.
— A rapid test of thickness of tin coatings on steel, 1934, 525.
— Review of *Ausgewählte Methoden für Schiedsanalysen und Kontradiktorischen Arbeiten bei der Untersuchung von Erzen, Metallen und sonstigen Hüttenprodukten*, 2nd Ed., 1932, 677.
— Review of Cumming and Kay's *Textbook of Quantitative Chemical Analysis*, 6th Ed., 1935, 503.
— Review of Hackney's *The Quantitative Analysis of Inorganic Materials*, 1930, 775.
— Review of Mellor's *Intermediate Inorganic Chemistry*, 1930, 417.
— Review of Strecker's *Qualitative Analyse auf Präparativer Grundlage*, 3rd Ed., 1933, 506.
— The determination of small quantities of phosphate by Pouget and Chouchak's method: the determination of phosphorus in small samples of steel, 1931, 518.
— The lead reduction method for the volumetric determination of tin and the interference with it by copper and antimony, 1931, 82.
— The separation of vanadium from tungsten, 1927, 466, 527.
— The solubility of Reinsch antimony films in water, 1929, 99.
— See also Evans, B. S.
— See also Hothersall, A. W.

- Clarke, S. G., and Bradshaw, W. N.** The calcium fluoride method for the determination of fluoride, with special reference to the analysis of nickel-plating solutions, **1932**, 138.
- Clarke, S. G., and Evans, B. S.** Method for the determination of traces of antimony in copper and its alloys, **1929**, 23.
- Clarke, S. G., and Jones, B.** A new sensitive colour reaction of copper, **1929**, 333.
- Clauder, O. E.** Gravimetric determination of tellurium, **1932**, 670.
- Claus, P. J.** Determination of santonin in "Trochisci santonini," **1931**, 467.
- Claus, R.** See Prescher, J.
- Clavera, S. M.** See Volmar, Y.
- Clay, R. S., and Court, T. S.** History of the Microscope (Review), **1933**, 649.
- Clayton, W.** Colloid Aspects of Food Chemistry and Technology (Review), **1932**, 133.
- Emulsions and their Technical Treatment, **1928**, 66.
- Review of Alexander's *Colloid Chemistry*. Vol. II, **1929**, 263; Vol. III, **1932**, 203; Vol. IV, **1932**, 601.
- Review of *Colloid Symposium Monograph*, **1929**, 68.
- Review of Freundlich's *Colloid and Capillary Chemistry*, **1926**, 598.
- Review of Gessner's *Die Schlämmanalyse*, **1931**, 352.
- Review of Hatschek's *Introduction to the Physics and Chemistry of Colloids*, and *Laboratory Manual of Elementary Colloid Chemistry*, **1926**, 112.
- Review of Holmes's *Laboratory Manual of Colloid Chemistry*, 2nd Ed., **1928**, 407.
- Review of Kopaczewski's *Introduction à l'Etude des Colloïdes*, **1926**, 323.
- Review of Kruyt's *Colloids*, **1928**, 116; 2nd Ed., **1930**, 777.
- Review of Ostwald's *Practical Colloid Chemistry*, **1927**, 174.
- Review of Rideal's *Surface Chemistry*, **1926**, 598; 2nd Ed., **1930**, 601.
- Review of Tammann's *The States of Aggregation: The Changes in the State of Matter in their Dependence upon Pressure and Temperature*, **1926**, 489.
- Review of Ware's *The Chemistry of the Colloidal State*, **1930**, 471.
- Review of Weiser's *Colloid Symposium Annual*, **1930**, 421.
- Review of Weiser's *Inorganic Colloid Chemistry*. Vol. I, **1933**, 787.
- The flocculation of troublesome precipitates in analysis, **1927**, 76.
- The Theory of Emulsions and their Technical Treatment (Review), **1928**, 185.
- Clayton, W., and Gibbs, W. E.** Examination for halophilic micro-organisms, **1927**, 395.
- Clennell, J. E.** See Naish, W. A.
- Clermont, J.** See Schleicher, A.
- Cleveland, M. M.** See Fellers, C. R.
- Cleveland, M. M., and Fellers, C. R.** Composition of Iraq dates, **1932**, 660.
- Clibbens, D. A.** See Birtwell, C.
- Clibbens, D. A., and Geake, G.** Measurement of the fluidity of cotton in cuprammonium solution, **1928**, 306.
- Clibbens, D. A., and Ridge, B. P.** Analysis of cotton. Rate of oxycellulose formation, **1927**, 361.
- Clift, H. S.** See Ridge, B. P.
- Clifford, F. W.** The care and custody of books, **1926**, 597.
- Clifford, W. M.** Effect of fluorides and iodides on the clotting of milk by pepsin, **1928**, 663.
- Effect of halogen salts on peptic digestion, **1927**, 550.
- Effect of short periods of cold storage on beef and mutton, **1926**, 303.
- Loss of glucose from dried peas on soaking, **1932**, 253.
- Clifford, W. M., and Mottram, V. H.** Determination of carnosine, **1929**, 51.
- Cliftworth, H.** See Kamerman, P.
- Clogne, R., Courtois, A., and Cazala.** Arsenic content of the well water of Choussy, at La Bourboule, and fixation of the arsenic by organisms, **1930**, 466.
- Close, A.** See Almquist, H. J.
- Closs, K.** See Lunde, G.
- Clow, C., and Martlatt, A. L.** Vitamin C in fresh and canned tomatoes, **1930**, 459.
- Clowes, F., and Coleman, J. B.** Elementary Analytical Chemistry—Qualitative and Quantitative, 11th Ed., **1931**, 137; 13th Ed., **1932**, 597.
- Clutterbuck, P. W.** Determination of succinic acid in blood, **1928**, 549.
- Coalstad, S. E.** Use of activated carbon for removal of small quantities of arsenic chloride from hydrochloric acid, **1934**, 716.
- Coase, S. A.** The detection of small quantities of germanium in the presence of arsenic, **1934**, 747.
- The determination of small quantities of germanium in the presence of arsenic, **1934**, 462.
- Cocchinaras, N. E.** The composition of linseed oil, **1932**, 233.
- Cockburn, T., and Love, M. M.** The analysis of egg yolk preserved with glycerin, **1927**, 143.
- Cocking, T. T.** Assay of official balsams, **1931**, 673; **1932**, 45.
- Compound tincture of benzoin, **1929**, 46.
- Determination of arsenic and mercury in Donovan's solution, **1931**, 262.
- Determination of cineole in camphor oil, **1927**, 600.
- Oil of amber (*Oleum Succini*), **1931**, 200.
- Petroleum spirit test for purity of castor oil, **1929**, 548.
- pH Values: What they are, and how to determine them, 3rd Ed., **1933**, 574.
- Review of Archibald's *The Preparation of Pure Inorganic Substances*, **1932**, 743.
- See also Allport, N. L.
- See also Bennett, C. T.
- See also Bennett, R. R.
- Cocking, T. T., and Crews, S. K.** Fluorescence test for olive oils, **1934**, 652; **1935**, 125.
- Cocking, T. T., and Hymas, F. C.** The determination of ascaridole in chenopodium oil, **1930**, 180.
- Cocking, T. T., and Middleton, G.** Determination of essential oils in drugs and spices, **1932**, 723.

- Cocking, T. T., and Middleton, G.** Determination of iodine and chlorine in iodised oils, 1931, 371.
- Cocking, T. T., and Price, E. A.** Colour reactions of vitamin A, 1926, 529.
- Cocks, L. V., and Nightingale, E.** The determination of butter in margarine, 1928, 322.
- Cocks, L. V., Christian, B. C., and Harding, G.** A new method for the determination of solid unsaturated fatty acids, 1931, 368.
- Coe, M. R.** Buckwheat milling and its by-products, 1932, 382.
- Determination of buttermilk or milk product in a mixed feed by determination of the lactose present, 1928, 441.
- Direct determination of available carbon dioxide in baking powder, 1931, 327.
- Coe, N. R., and Le Clerc, J. A.** Photochemical studies of rancidity, 1934, 354.
- Coffin, C. G.** Mercury-in-glass thermo-regulator, 1934, 305.
- Cohen, P. P.** See Hurd, L. C.
- Cohen, W. E.** A chemical investigation of *Pinus radiata* in relation to its paper-making qualities. I. The distribution and nature of the non-volatile ether extractives, 1935, 618.
- Chemical test for distinguishing between the woods of hoop pine and bunya pine, 1933, 636.
- The chemistry of Australian timbers. Part 4, A study of the lignin determination, II, 1935, 474. Identification of wood by chemical means Part 2, Alkalinity of ash and some simple chemical tests for the identification of the coloured woods of the genus *Eucalyptus*, 1935, 475.
- Cohen, W. E., and Dadswell, H. E.** Study of lignin determination, 1932, 103.
- Cohen, W. E., and Jamieson, A. B.** Manganese-content of some Australian timbers, 1933, 634.
- Cohen, W. E., Baldock, A. L., and Charles, A. G.** The chemical composition of woods of the ironbark group. Part 2, 1933, 345.
- Cohen, W. E., Charles, A. G., and Jamieson, A. B.** Chemistry of Australian timbers. Part 3, Chemical composition of four pale-coloured woods of the genus *Eucalyptus*, 1934, 128.
- Colbeck, E. W., Craven, S. W., and Murray, W.** Determination of sulphur in cast iron, 1935, 119.
- The determination of bismuth in copper, 1934, 395.
- Cole, H. I.** Constituents of *Hydnocarpus Wightiana* oil, 1930, 139.
- Cole, S. W.** Determination of reducing sugars by titration of ferricyanide, 1933, 616.
- Method for the direct determination of urea in urine, 1932, 118.
- Practical Physiological Chemistry, 7th Ed. (Review), 1926, 273; 8th Ed., 1929, 70; 9th Ed., 1934, 143.
- Cole, W. H.** The pyridine test as a quantitative method for the determination of minute amounts of chloroform, 1927, 94.
- Colegrave, E. B.** A micro extraction apparatus, 1935, 90.
- Colehour, J. K.** See Hurd, L. C.
- Coleman, J. B.** See Clowes, F.
- Coleman, J. B., and Arnall, F.** The Preparation and Analysis of Organic Compounds (Review), 1926, 599.
- Coleman, J. D.** See Lovell, W. G.
- Coles, L. A.** An Introduction to Modern Organic Chemistry (Review), 1930, 720.
- Collard, E.** New adulterant of cocaine, 1935, 185.
- Collens, A. E.** Lime seed oil and oil cake, 1926, 510.
- Collin, E. M.** The electrolytic separation of lead and bismuth with controlled potential, 1929, 654.
- The determination of bismuth in lead ores by internal electrolysis, 1930, 680.
- The determination of cadmium and copper in spelter and zinc ores by rapid internal electrolysis, 1930, 495.
- The rapid determination of bismuth and copper in lead bullion by internal electrolysis, 1930, 312.
- Collin, E. M., and Sand, H. J. S.** The electrolytic separation of lead and antimony, and its application to the determination of lead in tartar emetic, 1931, 90.
- Collin, G.** Fatty acid and glyceride structure of the seed fat of *Myristica malabarica*, 1933, 351.
- Kernel fats of some members of the Palmae, 1934, 287.
- Collin, G., and Hilditch, T. P.** Dika fat (*Irvingia butter*), 1930, 336.
- Fatty acids of nutmeg (mace) butter and of expressed oil of laurel, 1930, 335.
- Oxidation of oleyl and elaidyl alcohols, 1933, 564.
- Regularities in the glyceride structure of vegetable seed-fats, 1930, 291.
- Collin, G., Hilditch, T. P., and Lea, C. H.** Component glycerides of a mutton tallow, 1929, 243.
- Collins, F. J. E.** Acids of Chinese and esparto grass waxes and the hydrocarbons of esparto and candleilla waxes, 1935, 269.
- Collins, G. W.** Irregularities in sodium determination by sodium sulphate method (in organic compounds, 1931, 686.
- Procaine borate, 1932, 47.
- Collins, J. A. V.** Report of the Government Analyst for Ceylon for the year 1934, 1935, 472.
- Collins, S. H.** Plant Products (Review), 1927, 108.
- Review of Kear's *Technology of Wood Distillation*, 1926, 59.
- Colombier, L.** Determination of essential oil of mustard in mustard flour, 1926, 308.
- Some applications of ultra-violet light, 1931, 342.
- Colson, A. F.** An improved micro-apparatus for the determination of molecular weight, 1932, 757.
- The micro-analytical determination of methoxyl groups in liquid compounds, 1933, 594.
- The micro-determination of the molecular weight of volatile liquid compounds, 1934, 529.
- Comrie, A. A. D.** Colorimetric determination of the preservative value of hops, 1935, 48.
- The determination of copper in foods, 1935, 532.
- Comte, —.** Separation of maize starch added as adulterant to egg powder, 1930, 200.

- Conant, J. B.** See Adams, R.
- Conant, J. B., and Aston, J. G.** New oxidation reactions of aldehydes, 1929, 57.
- Conant, J. B., Scott, N. D., and Douglass, W. F.** Improved method for the determination of methaemoglobin, 1928, 167.
- Cone, W. H., and Cady, L. L.** Diphenylamine as a quantitative reagent for zinc, 1927, 730.
- Conn, L. W., and Johnson, A. H.** Vitamin C content of frozen orange and grape-fruit juices, 1933, 235.
- Conn, L. W., and Others.** Determination of copper in milk, 1935, 254.
- Conn, L. W., Webster, H. L., and Johnson, A. H.** Chromium toxicology. Absorption of chromium by the rat, 1932, 470.
- Conrath, P.** See Reintzer, B.
- Cook, C. A., and Smith, A. H.** Determination of isopropyl alcohol in the presence of acetone in the urine, 1930, 144.
- Cook, E. F.** New U.S. Pharmacopoeial standards for cod-liver oil, 1934, 545.
- Cook, J. W.** Carcinogenic hydrocarbons and their relationship to the sterols, 1935, 830.
- Cook, P. M.** See Bacharach, A. L.
- Cook, R. P.** Pyruvic acid in bacterial metabolism, with an account of the methods used for the detection and determination of pyruvic acid, 1931, 57.
- Cook, W. C.** Effectiveness of aliphatic compounds in attracting flies, 1926, 314.
- Cook, W. G. H.** See Smith, S.
- Cook, W. H., Griffing, E. P., and Alsberg, C. L.** Mill for small samples, 1932, 338.
- Cooke, J. H.** See Smith, H. L.
- Cooke, T. H.** The Kreis reaction as a method for the detection of incipient rancidity in cacao butter, 1929, 411.
- Cooke, W. E.** Lead poisoning from tap water, 1930, 208.
- Cooksey, T.** Report of the Government Analyst for New South Wales for the year 1927, 1928, 536; for 1928, 1928, 597; Appendix, 1928, 601.
- Cooksey, T., and Walton, S. G.** Electrolytic determination of lead in urine, 1929, 97.
- Cool, R. D.** Determination of small amounts of ethyl iodide, 1932, 585.
- Cooney, J. O.** Rapid determination of sulphur in brass and bronze, 1932, 409.
- Cooper, E. A., and Haines, R. B.** Bactericidal action of the nitroso compounds, 1929, 357.
- Cooper, E. A., and Read, W. H.** Dissolved oxygen absorption test, 1927, 723.
- Cooper, H. C.** See Holleman, A. F.
- Coops, J.** See Böeseken, J.
- Copaux, A.** See Copaux, H.
- Copaux, H.** Simple method for the determination of argon, 1932, 736.
- Copaux, H., and Copaux, A.** Photo-electric determination of coloured gases, 1926, 111.
- Copaux, H., and Matignon, C.** Different states of beryllium oxide, 1926, 107.
- Coplans, M., and Green, A. G.** Some new principles in chemotherapy, 1928, 114.
- Copping, A. M.** Iodine values of some sterols by Dam's method, 1928, 664.
- Origin of vitamin D in cod-liver oil: Vitamin D content of zooplankton, 1934, 840.
- Corbet, R. E., Geisinger, H. H., and Holmes, H. N.** Substances which interfere with the animony trichloride test for vitamin A, 1933, 414.
- Cordebar, H., and Michl, V.** Volumetric determination of organic compounds completely oxidisable by sulphuric and chromic acids, 1928, 171.
- Corey, R. E., and Rogers, H. W.** Reaction of aluminum with hydroxides of scandium, gallium, indium, thallium and germanium, 1927, 172.
- Corfield, C. E.** Editor of *The Extra Pharmacopoeia*, 1935, 855.
- See also Self, P. A. W.
- Corfield, C. E., and Rankin, W. R.** The resin of *Ipomoea*: Mexican scammony root; its solubility in ether and the acid value as a test for rosin, 1931, 673.
- Corl, C. S.** See Gnadinger, C. B.
- Corley, R. C.** Metabolism of laevulose, with a colorimetric method for its determination in blood and urine, 1929, 180.
- Corley, R. C., and Denis, W.** Determination of calcium in tissues, faeces and milk, 1926, 208.
- Cornec, E., and Klug, P.** Physico-chemical analysis by means of the boiling of saturated solutions, 1927, 660.
- Corner, M.** See Ridge, B. P.
- Cortner, R. A., and Hoffman, W. F.** On the presence of amines in the distillate from Kjeldahl-Gunning nitrogen determinations, 1928, 648.
- Cory, F. M.** Review of *Spirit Tables for use with Sikes' A and B Hydrometers*, 1934, 444.
- Cosbie, A. J. C.** Solid carbon dioxide and liquefied fermentation gas, 1932, 736.
- Cosme, L.** See Marañon, J.
- Coste, J. G. M.** See Innes, R. F.
- Coste, J. H.** A nomogram for converting observed volumes of gas to normal temperature and pressure, 1929, 656.
- Review of Britton's *Conductometric Analysis*, 1934, 854.
- Review of Findlay's *Introduction to Physical Chemistry*, 1934, 140.
- Review of Findlay's *Practical Physical Chemistry*, 5th Ed., 1931, 276.
- Review of Hopkins's *Water Purification Control*, 1934, 67.
- Review of *International Critical Tables of Numerical Data of Physics, Chemistry and Technology*. Vol. I, 1926, 482.
- Coste, J. H., and Garratt, D. C.** A specification for enamelled hollow-ware, 1935, 215.
- Costeanu, R. N.** Detection and determination of gold by means of carbon monoxide, 1935, 779.
- Cotonio, M.** See Friedmann, T. E.
- Cotton, A., and Descamps, R.** Photographic spectro-polarimeter for the ultra-violet, 1926, 164.
- Cotton, R. T.** See Roark, R. C.
- Couch, J. F.** New Alkaloids Discovered, 1920–1929 inclusive, 1931, 559.
- Relative toxicity of the lupine alkaloids, 1926, 361.

- Couch, J. V.** Tremetol, the compound that produces "trembles" (milk sickness), 1930, 150.
- Coulthard, C. E.** The valuation of carbolic powder, 1931, 251.
- Court, T. S.** See Clay, R. S.
- Courtois, —** See Baud, —, and Courtois, —.
- Courtois, A.** See Clogne, R.
- Courtois, J.** See Fleury, P.
- Cousts, J.** Assay of santonin in *Artemisia*, 1932, 726.
- Couture, E.** Oxidation of oils in the presence of irradiated sterols, 1930, 342.
— See also Hugouneq, L.
- Cowap, J. C.** Report of the Government Analyst for the Straits Settlements for 1929, 1930, 753; for 1930, 1931, 812; for 1931, 1932, 653; for 1932, 1933, 472; for 1933, 1934, 490; for 1934, 1935, 472.
- Cowap, J. C., and Geake, F. H.** The analytical characteristics of coconut toddy, 1932, 627.
- Coward, H. F., and Wheeler, R. V.** The Ignition of Firedamp. (Safety in Mines Research Board Report, No. 8), 1926, 302.
- Coward, K. H.** Assay of the antirachitic vitamin D, 1928, 449.
— Influence of light and heat on the formation of vitamin A in plant tissues, 1927, 355.
— Review of Bomskov's *Methodik der Vitaminforschung*, 1935, 648.
— Review of Sherman and Smith's *The Vitamins*, 1931, 491.
— The accuracy of biological estimations of vitamins, 1934, 681.
— Value of irradiated milk, 1930, 56.
— Variations in amounts of the antirachitic vitamin in different samples of cod-liver oil, milk and butter, 1929, 302.
— Vitamin content of margarine, 1928, 611.
— Vitamin D potency of sun-irradiated dried yeast, 1933, 772.
— See also Drummond, J. C.
— See also Dyer, F. J.
— See also Knapp, A. W.
— See also Morgan, B. G. E.
— See also Steenbock, H.
- Coward, K. H., and Eggleton, P.** The contents of vitamins A and C in watercress, 1928, 106.
- Coward, K. H., Dyer, F. J., and Morgan, B. G. E.** The relative vitamin A and vitamin D content of samples of cod-liver oil, 1932, 368.
- Coward, K. H., Dyer, F. J., and Morton, R. A.** Determination of vitamin A in cod-liver oils. Part 2, 1933, 105.
- Coward, K. H., Dyer, F. J., Morton, R. A., and Gaddum, J. H.** Comparison of tests for vitamin A in cod-liver oils, 1931, 821.
- Cowell, S. J.** Calcium-content of cabbage, 1933, 102.
- Cowgill, G. R.** See Block, R. J.
— See also Gilman, A.
- Cowie, D. W., and Gibson, D. T.** Micro-volumetric determination of sulphur and chlorine in organic compounds with the use of an assay balance, 1934, 388.
- Cowland, A. N.** See Woodard, W. A.
- Cowley, M. A.** See Schuette, H. A.
- Cox, G. J.** See Beal, G. D.
- Cox, G. J., and Dodds, M. L.** Composite reagent for calcium, 1932, 801.
- Cox, G. J., and Others.** Determination of aluminium in organic materials, 1932, 392.
- Cox, H. E.** Obituary of W. P. L. Hope, 1928, 569.
— Review of *Allen's Commercial Organic Analysis*, 5th Ed. Vol. IX, 1932, 544; Vol. X, 1934, 207.
— Review of Armstrong's *Essays on the Art and Principles of Chemistry*, 1927, 435.
— Review of Bömer, Juckenack and Tillmans' *Handbuch der Lebensmittel-Chemie*. Vol. I, 1933, 503; Vol. II, Part 1, 1934, 440, Part 2, 1935, 786; Vol. VI, 1935, 345.
— Review of Caven's *Atoms and Molecules*, 1928, 309.
— Review of Filby's *History of Food Adulteration*, 1935, 281.
— Review of Finter's *An Introduction to Physical Chemistry*, 1927, 175.
— Review of Fuhrmann's *Die Chemie der Nahrungs- und Genussmittel*, 1927, 499.
— Review of Glasstone's *Recent Advances in Physical Chemistry*, 1932, 68; 3rd Ed., 1934, 142.
— Review of Kaye and Laby's *Physical and Chemical Constants*, 1927, 53.
— Review of Lawrie's *Glycerol and Glycols*, 1929, 128.
— Review of Morton's *Radiation in Chemistry*, 1928, 560.
— Review of Murray's *Standards and Tests for Reagent and "C.P." Chemicals*, 1928, 563.
— Review of Parry's *Shellac*, 1935, 434.
— Review of Plücker's *Untersuchung der Nahrungs- und Genussmittel, Allgemeine Methoden; and Tabellen- und Rechenbuch für Nahrungsmittelchemiker*, 1931, 344.
— Review of Prausnitz's *Glas- und Keramische-Filter*, 1933, 250.
— Review of Rabinowitsch and Thilo's *Periodisches System*, 1930, 721.
— Review of Reynolds' *Atomic Structure as Modified by Oxidation and Reduction*, 1928, 676.
— Review of Stewart's *Recent Advances in Physical and Inorganic Chemistry*, 5th Ed., 1926, 541.
— Review of Thorpe's *Dictionary of Applied Chemistry*. Supplement Vol. I, 1934, 781; Vol. II, 1935, 645.
— The Chemical Analysis of Foods (Review), 1926, 164.
— The chemical examination of furs in relation to dermatitis, 1929, 694. Part 2, Results of tests on furs alleged to have caused dermatitis, 1933, 738; Part 3, The action of *p*-phenylenediamine on the skin, 1933, 743; Part 4, The chemical reactions of dyeing with *p*-phenylenediamine and *p*-aminophenol, 1934, 3; Part 5, see under Cox and Lewin; Part 6, The identification of vegetable and other dyes, 1935, 793.
— The composition of fish pastes, 1935, 71.
— The occurrence of arsenic in apples, 1926, 132.
— The occurrence of sulphur dioxide in malt vinegar, 1927, 397.
- Cox, H. E., and Lewin, J. U.** The chemical examination of furs in relation to dermatitis. V. The action of acid on Bandrowski's base, 1935, 350.

- Cox, N. M., Jr.** Nutritive value of pure fatty acid esters, 1934, 119.
- Cox, S. J.** See Crews, S. K.
- Cox, W. M., Jr.** See Bills, C. E.
- Coyne, F. P.** Effect of carbon dioxide on bacterial growth, with special reference to the preservation of fish. Part I, 1932, 399.
- Craig, K. A.** See Knapper, J. S.
- Craig, K. A., and Chandler, G. C.** Butylphenyl-arsonic acid as a reagent for the gravimetric determination of iron, 1934, 571.
- Craig, R.** See Kirk, P. L.
- Cramer, W., and Mottram, J. C.** Nutritive value of bread, with special reference to its content in vitamin B, 1928, 49.
- Crandall, W. R.** See Thurman, B. H.
- Crane, E. J., and Patterson, A. M.** A Guide to the Literature of Chemistry (Review), 1928, 466.
- Crane, M. B., and Zilva, S. S.** Antiscorbutic potency of apples. V, 1933, 234.
- Cranfield, H. T., and Blood, J. W.** The Purchase of Milk on a Quality (Composition) Basis, 1933, 574.
- Cranston, J. A.** See Caven, R. M.
- Craven, E. C.** Use of Agulhon's reagent in the analysis of solvents, 1933, 776.
— See also Pemberton, E. S.
- Craven, R.** Sensitive colour reaction for certain quinones, 1931, 613.
- Craven, S. W.** See Colbeck, E. W.
- Craven, V. C., and Kramer, M. M.** Vitamin C content of fresh and canned pear, 1927, 485.
- Crawford, M. E. F., Golding, J., Perry, E. O. V., and Zilva, S. S.** The fat-soluble vitamins of milk, 1930, 590.
- Creighton, H. J.** Principles and Applications of Electrochemistry (Review), 1929, 192.
- Creighton, M.** See Dutcher, R. A.
- Crennell, J. T., and Lea, F. M.** Alkaline Accumulators, 1929, 130.
- Cretcher, L. H.** See Butler, C. L.
— See also Renfrew, A. G.
- Crews, S. K.** See Allport, N. L.
— See also Cocking, T. T.
- Crews, S. K., and Cox, S. J.** The relationship between the Carr-Price value and the 328 μ absorption coefficient of preparation containing vitamin A, 1934, 85.
- Cribb, C. H.** Method of applying the Gutzeit test for arsenic, 1927, 701.
— Review of *International Register of Spas and Medicinal Waters*, 1931, 776.
— Review of Olsen's *Nostrand's Chemical Annual*, 1927, 617.
— Review of Price's *Atomic Form, with Special Reference to the Configuration of the Carbon Atom*, 2nd Ed., 1928, 183.
— Review of Tate's *Alcoholometry*, 1930, 663.
— Review of *The B.D.H. Book of Standards*, 1926, 373.
— Review of *Water Sterilisation by Gaseous Chlorine*, 1926, 545.
- Crist, J. W.** See Dye, M.
- Crist, J. W., and Dye, M.** Association of vitamin A with greenness in plant tissue. II, Vitamin A content of asparagus, 1929, 300. III, Vitamin A content of asparagus grown under light of various qualities, 1931, 410.
- Crocker, H.** See Wokes, F.
- Crocker, J. C., and Matthews, F.** Theoretical and Experimental Physical Chemistry (Review), 1928, 242.
- Crockford, H. D., and Brawley, D. J.** Solubility of lead sulphate in water and aqueous sulphuric acid, 1935, 196.
- Cronheim, G.** See Loewy, A.
- Cross, A. E.** See Markwell, W. A. N.
- Crossley, F.** See Hartung, W. H.
- Crossley, H.** See Trafford, N.
- Crossley, H. E.** Selenium as a catalyst in the Kjeldahl method for the determination of nitrogen in coal and coke, 1932, 739.
— See also King, J. E.
- Croxford, J. W.** Investigation of rye oil, 1930, 755.
— The differential halogen absorption of oils and fats, 1929, 445.
- Cruess, W. V., and Alsberg, C. L.** Bitter glucoside of the olive, 1934, 829.
- Crummett, A.** Standardisation of methods for testing the fastness of dyes, 1926, 649.
- Cruz, A. O.** See Perkins, G. A.
- Cruz, A. O., and West, A. P.** Analysis of Philippine lumbang oil, 1930, 596.
— Composition of Philippine kapok seed oil, 1931, 816.
— Composition of Philippine talisay oil from the seeds of *Terminalia catappa*, 1932, 467.
- Cruz, A. O., West, A. P., and Aragon, V. B.** Philippine rice oil (Ramai variety), 1932, 466.
- Csonka, F. A.** Proteins of yeast (*Saccharomyces cerevisiae*), 1935, 486.
- Cucuel, F.** Detection and determination of small amounts of mercury (collected references), 1934, 138.
- Culhane, K., and Underhill, S. W. F.** The estimation of hormones, 1932, 684.
- Culp, F. B.** See Ansbacher, S.
— See also Remington, R. E.
- Culpepper, C. W.** Behaviour of the anthocyanin pigments in canning, 1927, 628.
- Culpepper, C. W., and Moon, H. H.** Composition of the egg plant fruit at different stages of maturity, 1934, 115.
- Cumming, A. C., and Kay, S. A.** A Textbook of Quantitative Chemical Analysis, 6th Ed. (Review), 1935, 503.
- Cunliffe, P. W.** Application of infra-red photography to textiles, 1933, 308.
— Measurement of the colour of textile fabrics and some applications to problems of fading, 1930, 225.
- Cunningham, A.** Practical Bacteriology: An Introductory Course for Students of Agriculture, 2nd Ed. (Review), 1935, 280.
- Cunningham, I. J.** Some biochemical and physiological aspects of copper in animal nutrition, 1931, 820.
- Cunningham, T. R.** Determination of titanium in steels, 1933, 715.
- Cuny, L.** Volumetric determination of copper, based on Spacu's reaction, 1931, 551.
- Curtin, L. P.** Production of acid by wood-rotting fungi, 1927, 554.
- Curtin, L. P., and Bogert, M. T.** Wood preservation. Preservative properties of chlorinated coal tar derivatives, 1928, 50.

- Curtis, R. R.**, and **Wright, S.** The action of lobeline, 1927, 53.
- Curtis, G. H.** See West, E. S.
- Curtiss, L. F.** Pyrex as a container for radium solutions, 1927, 615.
- Cusa, N. W.**, and **Kipping, F. S.** Magnesium for Grignard reagents, 1927, 713.
- Cuvier, G.** See Nodon, A.
- Cuypers, P.** Influence of the stability to cold of neat's foot oil on the lubricating properties of compound oils prepared from it, 1930, 211.
- D**
- Dadlez, J.** Production of ozone by ultra-violet rays, 1927, 551.
- Dadswell, H. E.** Density of Australian timbers, 1932, 102.
— Identification of wood by chemical means, 1932, 101.
— See also Cohen, W. E.
- Dadswell, H. E.**, and **I. W.** The relation between durability and chemical composition of wood, 1932, 314.
- Dadswell, H. E.**, and **Burnall, M.** Methods for the identification of the coloured woods of the genus eucalyptus, 1933, 346.
- Dadswell, H. E.**, and **Eckersley, A. M.** Identification of the principal commercial Australian timbers other than *Eucalypts*, 1935, 616.
- Da Fano, E.** Chemical corrosion of lead in presence of phenol, 1932, 268.
- Dafert, O.**, and **Bolkbecher, M. T.** Rapid method for the determination of nicotine in unfermented tobacco, 1932, 389.
- Daggett, A. F.** Application of the thiocyanate method for the precipitation of copper to the confirmatory tests for cadmium and antimony, 1929, 679.
- Daggs, R. G.**, and **Eaton, A. G.** Vitamin C content of canned tomato juice, 1934, 360.
- Dahle, C. D.** See Dutcher, R. A.
- Dahle, D.** See Wachmann, H. J.
- Daji, J. A.** Determination of cellulose in soil, 1932, 792.
- Dakin, H. D.**, and **West, R.** General reaction of amino acids. I, 1928, 452; II, 1928, 554.
- Dale, H. E.** Analysis of jalap, 1928, 45.
- Dale, H. H.** See Drummond, J. C.
- d'Almeida, A.** See Geraldes, C. de M.
- Dalrymple-Champneys, Sir W.** The supervision of milk pasteurising plants, 1935, 408.
- Damanski, A. F.** See Reich, W. S.
- D'Ambrosio, A.** Iodised eggs, 1933, 481.
- Damerell, V. R.**, and **Strater, H. H.** Volumetric method for the determination of sulphate, 1934, 202.
- Damiens, A.**, and **Blaignan, S.** Normal proportion of bromine in edible seeds, wheat and bread, 1932, 178.
- Damon, S. R.** Food Infections and Food Intoxications (Review), 1928, 405.
- Damon, S. R.**, and **Leiter, L. W.** Infection by certain organisms of the salmonella group, 1927, 167.
- Damon, W. A.**, and **Wylam, B.** Report of the Chief Inspectors under the Alkali, etc., Works Act for the year 1933, 1934, 624; for 1934, 1935, 690.
- Danckworff, P. W.** Lumineszenz-Analyse im Filtrierten Ultravioletten Licht, 3rd Ed. (Review), 1935, 68.
- Danckworff, P. W.**, and **Pfau, E.** The use of the analytic quartz lamp for testing drugs, 1927, 707. See also list of Errata.
- Danet, R.** A stable scale-standard for determining nitrites in waters, 1928, 234.
— Colorimetric determination of phosphates in potable waters by the Denigès method, 1927, 427.
- Daniel, L.** Formic acid in commercial acetic acid, 1927, 549.
- Danielsen, E.** See Vollhase, E.
- Danielson, I. S.** See Norris, E. R.
- Dann, W. J.** Vitamin D content of red palm oil, 1932, 398.
— See also Booth, R. G.
- Dann, W. J.**, and **Moore, T.** Absorption spectra of the mixed fatty acids from cod-liver oil, 1934, 51.
- Darbinian, M. B.**, and **Kankanian, A. G.** Quantitative precipitation of copper by tannin, 1934, 845.
- Darling, E. R.** Inorganic Chemical Symbols and other useful Chemical Data (Review), 1927, 502.
- Daron, A.** See Nottin, P.
- Darwin, C. G.** The New Conceptions of Matter (Review), 1932, 413.
- Das, J. C.** Annual Report of the Chemical Analyst for Bihar and Orissa for the year 1930, 1931, 400.
- Das-Gupta, P. N.** Colorimetric and gravimetric determination of uranium, 1930, 154.
— Gallic acid as a reagent for titanium, 1930, 294.
— Use of phenolic acids in the detection, separation and determination of metals. Part I, Separation of group 2A metals, 1929, 678.
- Da-Tchang, T.**, and **Houong, L.** Precipitation of titanium as phosphate, 1935, 638.
- Daubney, C. G.** The analysis of cadmium red pigments, 1932, 22.
— The determination of small quantities of chlorine in commercial benzaldehyde, 1935, 29.
- Dauphinee, J. A.** See Hunter, A.
- Dauvé, —.** Detection of arsenic, 1929, 56.
- David, M.** See Sisley, P.
- Davidson, A.** Intermediates for Dyestufts (Review), 1926, 219.
- Davidson, J.** Determination of plant ash constituents in the presence of silica, 1932, 55.
- Davidson, J.**, and **Capen, R. G.** Colorimetric methods for the determination of manganese in plant materials, 1932, 56.
- Davidson, J.**, and **Le Clerc, J. A.** New method for the determination of the acid-base balance in food materials, 1935, 262.
- Davidson, L. S. P.**, **Fullerton, H. W.**, and **Others.** Lead poisoning in the north-east of Scotland, 1933, 710.
- Davies, A. W.** Colorimetric determination of vitamin A by the alkali digestion method, 1934, 357.
- Davies, C.**, and **Monro, A. D.** Solubility of cupric sulphide in alkali sulphides in presence of sulpharsenates, 1927, 659.

- Davies, C. W.** Review of Engelder's *Calculations of Qualitative Analysis*, 1933, 573.
 — The Conductivity of Solutions and the Modern Dissociation Theory (Review), 1930, 469; 2nd Ed., 1933, 645.
- Davies, C. W., and Innes, R. F.** Determination of buffer salts and acidity in the aqueous extracts of vegetable-tanned leathers, 1933, 51.
- Davies, W. L.** Acid values of fats and oils. A new method for determining the barium values of fats and oils, 1928, 172.
 — Composition of commercial dried whey, 1935, 827.
 — Detection and determination of diacetyl in butter, 1934, 46.
 — Detection *in situ* of tin solder causing dark discoloration in cheese, 1932, 95.
 — Effect of wrapping material on the fat of fatty foods. I, Contact wrappers, vegetable parchment, greaseproof paper. II, The effect of sunlight passing through transparent wrappers of various colours (cellophane) and some transparent papers, 1934, 495.
 — Tests for the incipient rancidity of fats, 1928, 498.
 — The deterioration of sodium hypochlorite solutions, 1934, 619.
 — The determination of chlorides in dairy products and biological material, 1932, 79.
 — Variation in the phosphorus content of maize meal used in rachitogenic rations, 1934, 340.
- Davis, G. H.** Holder for mercuric chloride paper in Gutzeit test, 1931, 30.
- Davis, H.** Review of Mitchell's *Vinegar: Its Manufacture and Examination*, 2nd Ed., 1927, 178.
- Davis, J. D., and Younkings, J. A.** Electrostatic method for the determination of fusain in bituminous coal, 1929, 616.
- Davis, J. G.** A simple inexpensive quinhydrone cell for rapid work, 1931, 449.
- Davis, J. G., and Golding, J.** Question of the identity of a bacterial growth-promoting factor with vitamin B₁, 1931, 56.
- Davis, W. A., Maltby, J. G., and Salt, F. E.** Determination of nitrogen in yeast and brewing materials, 1934, 43.
- Davson, A. P.** Appointment as Public Analyst for County of Southampton, 1930, 383.
- Dawsey, L. J., and Haas, A. J.** Determination of mineral oil retained by leaf surfaces after spraying, 1933, 299.
- Dawson, E. R.** Selective fermentation of glucose and fructose by yeast, 1932, 536.
 — See also Platt, B. S.
- Dawson, T. R., and Porritt, B. D.** Rubber. Physical and Chemical Properties (Review), 1935, 857.
- Day, A. A.** See Stearn, A. E.
- Day, F. E.** Review of Waksman and Starkey's *The Soil and the Microbe*, 1932, 66.
 — See also Hopkins, R. H.
- Day, H. A.** See Pucher, G. W.
- Day, H. G.** See Kruse, H. D.
- Day, P. L.** See Sherman, H. C.
- Daynes, H. A.** Gas Analysis by Measurement of Thermal Conductivity (Review), 1933, 425.
- Dean, E. W.** See Neusbaum, C. A.
- Dean, H. K.** See Banis, A.
- Deary, H. K., and Hilditch, T. P.** Body fats of the pig. III, Influence of body temperature on the composition of depot fats, 1934, 286.
 — Composition of commercial palm oils. III, 1933, 484.
 — Further observations on factors which influence the component fatty acids of butter, 1934, 285.
- De Balsac, H.** See Labbé, H.
- De Beus, J.** See Reith, J. F.
- De Bøer, G. M.** X-ray investigation of the polymorphism of fatty acids, 1927, 368.
- de Boer, H. W.** Crystallisation of honey and the heating of crystallised honey, 1932, 107.
- Debono, H.** See Marcelet, H.
- De Bord, G. G.** Effect of dehydration on the bacterial flora of eggs, 1926, 98.
- Debordes, G.** See Dubaqué, J.
- de Brouckère, L., and Gillet, A. E.** Colorimetric determination of iron as thiocyanate, 1933, 640.
- de Brouckère, L., and Solowiejczyk, S.** Colorimetric determination of copper as copper sulphide, 1935, 197.
- Debuquet, L., and Velluz, L.** Colorimetric determination of magnesium, 1934, 200.
- Debye, P.** Polar Molecules (Review), 1930, 71.
- Deck, E. M.** See Brown, J. B.
- De Coquet, C.** Micro-colorimetric determination of glycerol in coloured wines, 1930, 653.
- Dedlow, C., and Smith, D. T.** Determination of moisture in meat extract, 1926, 521.
- Deeley, R. M.** See Archbutt, L.
- Deem, A. G.** See Smith, G. L.
- Deeney, J. J.** Solubility of beeswax, 1932, 256.
- Deering, E. C.** See Schoeller, W. R.
- De Fazi, R.** Preservation of beer, 1930, 137.
- Defosse, —.** See Morvillez, F.
- Degard, C.** See Huybrechts, M.
- de Graeve, P.** See Fosse, R.
- De Haas, G.** Colour reaction for codeine and dionine, 1930, 454.
 — Detection of β -naphthol, 1931, 202.
- Dehe, H.** Two new methods for determining phenol in waste liquors, 1929, 121.
- Deischer, C. K., and McNabb, W. M.** Determination of the calcium and phosphate content of bones, 1935, 750.
- Deiss, E.** See Bauer, O.
- Dejust, L. H., Van Stolk and Dureuil, E.** Ergosterol in human blood, 1928, 552.
- Dekker, J., and Dekker-Koers, C. H.** Bactericidal properties of silver chloride, 1933, 357.
- Dekker-Koers, C. H.** See Dekker, J.
- De Kroes, A., and Reclaire, A.** Detection of artificial colouring matters in fruit juices and similar products, 1928, 602.
- De La Bruere, M. A.** Colour-measurement of tanning extracts, 1929, 124; 1930, 657.
- Delaby, R., and Charonnat, R.** Pyrolysis of vegetable oils of pronounced acetyl value (grape seed, castor, Para rubber seed oils), 1931, 61.
 — Separator for fractional distillation under reduced pressure, 1929, 124.

- Delaby, J. A.** and **Sabeta, S.** Determination of free primary and secondary alcohols in the presence of tertiary alcohols in essential oils by acetylation in pyridine, **1935**, 838.
- De La Pena, P.** See Strecker, W.
- De Laszlo, H.** Spectroscopic determination of platinum in silver alloys, **1928**, 177.
- Delauney, A.** Determination of traces of mercury in the form of rings of mercuric iodide, **1932**, 737.
- New method of quantitative analysis applicable to a mixture of rare earths, **1927**, 614.
- Delaville, M.**, and **Carlier, P.** Determination of small amounts of potassium, **1926**, 368.
- De Lawder, A.** See Jensen, H.
- Delire, A.** See Bezssonoff, N.
- Delomenie, H.** Production of toxic gases from ferro-silicons in the presence of water, **1933**, 774.
- De Long, W. A.** Effect of potassium iodide in the Shaffer-Hartmann micro sugar reagent, **1927**, 350.
- Delorme, J.** See Riou, P.
- Delp, O.** See Hirsch, P.
- Demmel, M.** See Funk, H.
- Demole, V.** Physiological action of ascorbic acid and some related compounds, **1934**, 709.
- De Nardo, L. U.** The pyrogallol method for the determination of nitrates in soil and waters, **1929**, 360.
- Denham, W. S.**, and **Dickinson, E.** Stains to distinguish fibroin and silk gum, **1935**, 335.
- Deniges, G.** Action of concentrated hydrobromic and hydriodic acids on the cobalt ion. New reaction for nickel, **1926**, 478.
- Colorimetric determination of cantharidin, **1934**, 496.
- Colorimetric micro-determination of caffeine, **1935**, 200.
- Detection and colorimetric determination of nickel in cobalt salts by means of formaldoxime, **1934**, 200.
- Identification of yohimbine by micro-crystallography, **1929**, 179.
- Microchemical test for barium with sodium tungstate, **1930**, 156.
- Micro-crystallographic identification of barbituric alkaloids, **1931**, 689.
- Qualitative reaction for copper, **1926**, 536.
- Rapid determination of the phosphoric ion in soils and fertilisers by ceruleomolybdimetry, **1928**, 351.
- Volumetric determination of molybdenum, **1927**, 250.
- Denis, W.** See Corley, R. C.
- Denis, W.**, and **Reed, L.** Methods for the determination of some of the non-protein sulphur compounds of blood, **1927**, 96.
- Nephelometric methods for the determination of some sulphur compounds in urine, **1927**, 95.
- The action of blood on sulphides, **1927**, 298.
- Denis-Nathan, L.** The Cryoscopy of South African Milk, **1933**, 574.
- Dennis, L. M.** Poisoning by mercury vapour, **1927**, 44.
- De Ong, E. R.** See Gray, G. P.
- De Paolini, I.** New colour reaction of aromatic amines, **1931**, 129.
- Dernbach, W.** See Kofler, L.
- Derrett-Smith, D. A.** Determination of starch in finished goods and yarns, **1931**, 131.
- de Saint-Mais, J.** See Woog, P.
- Desalbres, L.** See Dupont, G.
- Descamps, R.** See Cotton, A.
- Desch, C. H.** The Growth of Crystals, **1926**, 319.
- Desew, N.** See Balarew, D.
- Desfemmes, A.** See Bordas, F.
- Desgrez, Ch.** See Bonn, A.
- Desodt, C.** See Paget, M.
- Desseigne, G.** See Vandoni, R.
- D'Estivaux, L. B.** Intense development of the "tourne" bacterium in a highly alcoholic medium, **1935**, 630.
- Desvergues, L.** Colour reaction of diphenylamine, **1929**, 243.
- De Toni, G. M.** Colorimetric determination of cholesterol and lecithin in blood in connection with Folin and Wu's system of blood analysis, **1926**, 639.
- Deuel, H. J., Jr.**, **Waddell, S. S.**, and **Mandel, J. A.** Determination of glucosan, **1926**, 468.
- De Verter, P. L.** See Neusbaum, C. A.
- De Visser, W.** The Calender Effect and Shrinking Effect of Unvulcanised Rubber (Review), **1927**, 256.
- Devriendt.** See Paget.
- De Vries, T.** See Moore, R. B.
- De Waele, A.** See Bromley, H. A.
- De Whalley, H. C. S.** Examination of unrefined sugars on sale in various health food shops, **1932**, 628.
- De Wild, M.** The Scientific Examination of Pictures (Review), **1930**, 306.
- de Wilde, F. G.** Distribution of saponin in *Agrostemma githago* and in *Saponaria officinalis*, **1932**, 180.
- De Wildeman, E.** Caffeine in "Yocco," **1927**, 94.
- Dexter, J.** See Stockdale, D.
- Dey, B. B.**, and **Sitheraman, M. V.** New method of estimating the activity of peroxidases, **1931**, 821.
- Dhar, N. R.**, and **Ram, A.** Presence of formaldehyde in terrestrial and solar atmospheres, **1933**, 634.
- Dhéré, C.** Nachweis der Biologisch Wichtigen Körper durch Fluoreszenz und Fluoreszenzspektren (Review), **1934**, 375.
- Dhingra, D. R.** Component fatty acids and glycerides of the milk-fat of Indian camels, **1934**, 554.
- Dhingra, D. R.**, **Seth, G. L.**, and **Speers, P. C.** Some Indian seed fats. Mowha (*Bassia latifolia*) and Tamal (*Garcinia morella*) fats, **1933**, 350.
- Diacon, F.** Sheep's milk, **1932**, 252.
- Diaz, F. O.** See Strecker, W.
- Dice, G. M.** See Brighton, T. B.
- Dichno, M. A.**, and **Briskin, O. M.** Evaluation of acid cream, **1927**, 235.
- Dick, H.** See Tillmans, J.
- Dick, J.** Rapid gravimetric determination of cadmium as oxalate, **1930**, 66.
- Rapid gravimetric determination of certain elements, **1931**, 203.
- See also Spacu, G.
- Dick, W.** See Bülow, C.

- Dickens, F., Dodds, E. C., Lawson, W., and MacLagan, N. F.** Purification and properties of insukn, 1927, 553.
- Dickhart, W. H.** Behaviour of fish pills with uranium nitrate and pyrogallol, 1927, 725.
— Quince seed oil, 1932, 530.
— See also Trevethick, H. P.
- Dickinson, E.** See Denham, W. S.
- Dickson, A. D.** See Link, K. P.
- Dickson, W.** Review of Sutermeister's *Chemistry of Pulp and Paper-making*, 2nd Ed., 1929, 626.
- Diem, A.** See Eckart, H.
- Diemair, W.** Detection of bilberry juice in red wine, 1932, 320.
— See also Bleyer, B.
— See also Rüdiger, M.
- Diemair, W., Bleyer, B., and Schneider, L.** Detection and determination of gluconic acid, 1935, 480.
- Diemair, W., Mayr, F., and Täufel, K.** Supposed diminution of lecithin in egg-paste products, 1935, 254.
- Dienert, F., and Etrillard, P.** Action of free chlorine on microbes, 1927, 722.
- Dietrich, H. E.** See Henderson, W. F.
- Dietrich, K. R.** Amount and determination of amines in brandy, 1934, 630.
— See also Böhm, E.
- Dietzel, R., and Rosenbaum, E.** Determination of the hydrogen ion concentration of wine by means of the quinhydrone electrode, 1927, 600.
- Dill, D. B., and Alsberg, C. L.** Preparation, solubility and specific rotation of wheat gliadin, 1926, 44.
- Dill, D. B., and Clark, P. B.** Formaldehyde in certain marine products, 1926, 304.
— Formaldehyde in fish, 1927, 222.
— Tin corrosion and blackening in certain marine products, 1926, 413.
- Dingemans, J. J.** Identification of wine vinegars, spirit vinegars and artificial vinegars, 1933, 619.
- Dingley, L. A.** Carbon tetrachloride poisoning, 1926, 419.
- Dinslage, E., and Ludorff, W.** Indian tea-fungus, 1927, 605.
- Dinslage, E., and Windhausen, O.** Freshness of eggs, 1927, 90.
- Dische, Z.** Carbohydrates. I, Micro-determination of carbohydrates in pure solutions and in animal material, 1932, 410.
- Ditt, M.** See Funk, H.
— See also Gall, H.
- Dittmar, H.** See Pyriki, C.
— See also Walton, J. H.
- Diver, G. R.** See Lozinski, E.
- Dixon, B. E.** The determination of carbon in rocks and minerals, 1934, 739.
— The determination of small quantities of beryllium in rocks, 1929, 268.
- Dixon, F.** Appointed Additional Public Analyst and Deputy Agricultural Analyst for the County of Stafford, 1932, 629.
— Appointed Public Analyst for the County Borough of Stoke-on-Trent, 1934, 750.
- Dixon, H. B.** Ignition of ether at low temperatures, 1928, 153.
- Dixon, H. B.** Ignition points of gases in nitrous oxide, 1927, 614.
- Dixon, M.** Action of carbon monoxide on certain oxidising enzymes, 1928, 52.
- Dixon, S., and Sugden, J. H.** Abnormal sweetened condensed milk, 1930, 749.
- Dixon, T. F.** Determination of bromine in normal blood, 1934, 637.
- Dixon, W. E.** The tobacco habit, 1927, 662.
- Dobbin, L., and Mackenzie, J. E.** Salts and their Reactions, 1929, 314.
- Dobbins, J. T., and Byrd, R. M.** Volumetric method of determining sodium, 1931, 764.
- Dobbins, J. T., and Sanders, J. P.** Determination of aluminium. Formation of lithium aluminate, 1932, 197.
— Volumetric determination of nickel and cobalt, 1935, 54.
- Dobrovolny, F. J.** See Lauer, W. M.
- Dodd, A. S.** A new test for boric acid and borates, 1929, 282.
— A study of the methods of determining boron compounds in food and drugs, 1929, 645. Part 2, Experimental: Effect of fats and other organic substances on the determination, 1929, 715. Part 3, Experimental: The conditions required for quantitative titration, 1930, 23.
— Modification of Ridsdale's method for determining phosphoric acid, 1928, 276.
— Natural occurrence of boron compounds in fruits and vegetable products, 1929, 15.
— Production of uniform stains in the Gutzeit test for arsenic, 1928, 152.
— The natural occurrence of boron compounds in cacao and cacao products, 1927, 459. See also list of Errata.
- Dodd, F. R.** Castor seed in feeding stuffs, 1932, 488.
— Notes on the spontaneous combustion or ignition of hay, 1933, 77.
— Obituary of W. E. Woolcott, 1934, 377.
- Dodd, F. R., and Loudon, C. R.** The effect of grinding in a power mill on the albuminoid content of feeding stuffs, 1935, 299.
- Dodds, E. C.** See Dickens, F.
- Dodds, E. C., and Gallimore, E. J.** Determination of small quantities of oxalic acid (in urine), 1932, 788.
- Dodds, M. L.** See Cox, G. J.
- Dodé, M.** See Matignon, C.
- Dodgson, R. W.** Report on mussel purification (Ministry of Agriculture and Fisheries), 1929, 158.
- Doeuivre, J.** Use of ozone for the determination of the constitution of unsaturated compounds 1929, 361.
- Dohrow, R. H.** See Searle, H. E.
- Doisy, E. A.** See Levy, M.
- Donald, M. B.** See Stevens, H. P.
- Donaldson, H. C.** See Karns, G. M.
- Donau, J.** New method of inorganic gravimetric micro-analysis. I, Determination of small quantities of gold in the presence of large amounts of iron, lead and copper, 1930, 598.
— New micro-balance, 1931, 342.
— Torsion micro-balance, 1934, 436.
- Donck, C. M.** See Straub, J.
- Donnelly, J. T., Foott, C. H., Nielsen, H., and Reilly, J.** Mercury oscillating pump, 1928, 62.

- Donovan, W.** Report of the Dominion Analyst for New Zealand for 1929, 1931, 182; for 1930, 1932, 311; for 1931, 1933, 405; for 1932, 1934, 347; for 1933, 1935, 102.
- Dootson, F. W., and Berry, A. J.** First Principles of Chemistry (Review), 1928, 244.
- Dore, W. H.** Determination of galactonic acid in pectin, 1926, 151.
- Doré, C.** Methods of Cellulose Chemistry (Review), 1933, 788.
— Obituary of C. F. Cross, 1935, 437.
— Review of Faust's *Artificial Silk*, 1929, 499.
— Review of Reinthaler's *Artificial Silk*, 1929, 260.
— Review of Wheeler's *The Manufacture of Artificial Silk*, 1928, 623.
- Dorrer, O.** See Stewart, C. P.
- Dorrington, B. J. F., and Ward, A. M.** Potassium cyanate as a reagent for the detection of cobalt, 1929, 327.
— The gravimetric determination of aluminium, chromium and iron by means of potassium cyanate, 1930, 625.
- Dorsey, G. E.** The colour of red formations, 1926, 363.
- Dortrepe, G.** Determination of tungsten with phenylhydrazine, 1930, 347.
- Dosios, K., and Pierri, J.** Determination of lead in lead tetraethyl, 1930, 715.
- Dott, D. B.** Alleged deterioration in Indian opium, 1926, 255.
— Cotarnine hydrochloride, 1926, 92.
— Iodeosin indicator in alkaloidal determinations, 1926, 255.
- Douglass, W. F.** See Conant, J. B.
- Dovey, E. R.** Rapid determination of opium in stomach contents, 1927, 26.
— Report of the Government Analyst for Hong Kong for the year 1929, 1930, 754.
- Dow, O. D.** See Supplee, G. C.
- Dow, W. T.** See Cameron, A. M.
- Dowell, J. H.** New measuring micrometer, 1927, 51.
- Doyle, W. M.** See Bannister, C. O.
- Dózsa, A.** See Schulek, E.
- Drabkin, D. L.** Normal pigment of the urine. III, New method for its extraction, 1930, 708.
- Dracass, W. R.** Note on nitrates in milk, 1934, 401.
- Dragenesco, A. L., and Weinberg-Sachetti, E.** Analytical research on protargol (determination of alkalinity and silver), 1931, 131.
- Drake, N. L., and Bronitsky, J.** *p*-Phenylphenacyl bromide as a reagent for identifying organic acids, 1930, 713.
- Drake-Law, H.** Determination of sulphur dioxide in foodstuffs, 1927, 352.
- Drakeley, T. J.** See Armstrong, D.
- Drakeley, T. J., and Nicol, H.** Absorption of oxygen by alkaline pyrogallol, 1929, 306.
- Drawe, P.** Determination of lead in glass, 1935, 637.
- Drekter, I. J.** See Bernhard, A.
- Drevon, B.** Determination of oxydimorphine, 1935, 707.
- Drew, H. D. K., and Porter, C. H.** Micro-determination of selenium and tellurium in organic compounds, 1929, 683.
- Drew, W. N.** Obituary of M. Wynter Blyth, 1931, 353.
- Driver, J. E.** Bentley and Driver's Textbook of Pharmaceutical Chemistry, 2nd Ed. (Review), 1933, 724.
- Driver, J. E., and Thompson, S. P.** Composition and solubility of strychnine hydrochloride, 1928, 544.
- Driver, J. E., and Trease, G. E.** The Chemistry of Crude Drugs. An Elementary Textbook for Students of Pharmacognosy (Review), 1928, 513.
- Droit, S.** See François, M. T.
- Druart, C. E.** Wulff method of determining the pH value, 1927, 657.
- Druce, J. G. F.** The discovery of eka- and divmanganese, 1926, 482.
— Volumetric determination of rhenium, 1933, 55.
- Drude, W.** See Lüning, O.
- Drumm, P. J.** See Reilly, J.
- Drummond, A. A.** See Barry, T. H.
- Drummond, J. C.** Comparative studies of the nutritive value of raw and pasteurised milk, 1934, 292.
— Review of Abderhalden's *Handbuch der Biologischen Arbeitsmethoden*, 1930, 722.
— The antimony trichloride reaction for cod-liver oils, 1930, 458.
— See also Ahmad, B.
— See also Duliere, W.
— See also Gillam, A. E.
— See also Guha, B. C.
— See also Haines, R. T. M.
— See also Narayanan, B. T.
— See also Rosenheim, O.
— See also Thorbjarnarson, T.
— See also Watson, S. J.
- Drummond, J. C., and Baker, L. C.** Composition of wool fat, 1929, 607.
— Further studies of the chemical nature of vitamin A, 1929, 557.
- Drummond, J. C., and Hilditch, T. P.** The relative values of cod-liver oils from various sources, 1931, 142, 553.
- Drummond, J. C., and Morton, R. A.** Observations on the assay of vitamin A, 1929, 763.
- Drummond, J. C., Ahmad, B., and Morton, R. A.** Further observations on the relation of carotene to vitamin A, 1930, 643.
- Drummond, J. C., Bell, M. E., and Palmer, E. T.** Observations on the absorption of carotene and vitamin A, 1935, 564.
- Drummond, J. C., Channon, H. J., and Coward, K. H.** Studies on the chemical nature of vitamin A, 1926, 312.
- Drummond, J. C., Hill, A. V., Dale, H. H., and Henderson, L. J.** Lectures on certain aspects of Biochemistry (Review), 1928, 431.
- Drury, P. E.** See Stoddard, J. L.
- Dryburgh, A.** See Smith, A. N.
- Duarte, C.** See Gerales, C. de M.
- Dubaquié, J.** Sulphur dioxide and the behaviour of bottled white wines, 1927, 40.
- Dubaquié, J., and Debordes, G.** Determination of residual sugar in red wines, 1932, 110.
- Dubrisay, R.** Applications of capillarity measurements to fatty acid mixtures, 1926, 111.

- Dubský, J. V.** Selbsttätige Filtrationsapparate, 1931, 698.
- Dubský, J. V.,** and **Bencko, V.** Reagent for copper, cobalt and nickel, 1933, 638.
- Dubský, J. V.,** and **Hauer, E.** Micro-acidometric method for the determination of nickel, 1933, 305.
- Dubský, J. V.,** and **Okáč, A.** Reactions of dye-stuffs with nitrous acid, 1927, 491; 1929, 60.
- Dubský, J. V.,** and **Trtílek, J.** Mercurimetric iodine determination with diphenylcarbazide as indicator, 1935, 200.
- Micro-volumetric analysis with diphenylcarbazide and diphenylcarbazone as indicators in mercury titrations, 1934, 304.
- Dubský, J. V.,** and **Wagner, E.** Micro-detection of magnesium and aluminium with alkannin and naphthazarin, 1935, 641.
- Dubský, J. V., Okáč, A.,** and **Trtílek, J.** Characteristic atomic groupings of bismuth, 1935, 846.
- Macro- and micro- tests for nitrous acid, 1935, 200.
- Ducleaux, J.,** and **Jéantet, P.** Transparency of natural waters to ultra-violet rays, 1926, 112.
- Duclaux, M. J.** Adsorbing properties of cellulose compounds, 1926, 481.
- Dudley, H. C.,** and **Byers, H. G.** Determination of selenium in organic materials, 1935, 270.
- Dudley, S. F., Edmed, F. G.,** and **Frederick, R. C.** Production of carbon monoxide from paint in sealed compartments, 1933, 298.
- Duerden, J.** See Bliss, H.
- Dufilho, E.** See Barthe, L.
- Dufrenoy, J.** Cytological study of water-soluble and fat-soluble constituents of citrus, 1929, 431.
- See also Reed, H. S.
- Dugdale, C. M.,** and **Munro, R. J.** Vitamins in heat-sterilised food, 1926, 359.
- Duguid, J. B.** Toxicity of vitamin D, 1931, 266.
- Duhring, F. L.** See Greenman, M. N.
- Dukes, C.** The heat resistance curve: A new bacteriological test for pasteurised food, 1930, 14.
- Dulfer, I. G.** See Van Nieuwenburg, J.
- Duliere, W., Morton, R. A.,** and **Drummond, J. C.** Alleged relation of carotin to vitamin A, 1929, 764.
- Dunajew, A.** Colorimetric determination of orthophosphoric acid, 1930, 464.
- Dunbar, B. A.,** and **Wells, C. F.** Fatty oil of sweet clover seed, 1927, 47.
- Duninowski, A. I.** New method for the optical determination of atmospheric ozone, 1931, 136.
- Dunlap, H. L.** See Weber, P.
- Dunlap, L.** See Morris, S.
- Dunlop, D. M.** See Stewart, C. P.
- Dunn, J. T.** A curious case of antimony poisoning, 1928, 532.
- Presidential Address, 1931, 221; 1932, 213.
- Review of Archbutt and Deeley's *Lubrication and Lubricants*, 5th Ed., 1927, 562.
- Review of Auden's *Sulphuric Acid and its Manufacture*, 1931, 493.
- Review of Dyer's *Reminiscences of the First Fifty Years of the Society of Public Analysts*, 1933, 120.
- Dunn, J. T.** Review of Lunge and Keane's *Technical Methods of Chemical Analysis*, 2nd Ed., Vol. III, 1931, 769.
- Review of Roger's *Industrial Chemist*, 4th Ed. Vols. I and II, 1926, 601.
- Review of Stocks' *Water Analysis for Sanitary and Technical Purposes*, 1932, 742.
- Some experiences in the determination of very small quantities of iodides, 1928, 211.
- The Perkin tube, 1934, 342.
- Dunn, J. T.,** and **Bloxam, H. C. L.** Boric acid in oranges, 1929, 28.
- Iron kettles tinned with tin-lead alloys, 1930, 34.
- Occurrence and source of lead, copper, zinc and arsenic compounds in atmospheric dusts, 1933, 500.
- Presence of lead in the herbage and soil of lands adjoining coke-ovens and the illness and poisoning of stock fed thereon, 1932, 330.
- Shredded suet: A new material used for coating, 1935, 320.
- Supposed poisoning by tea, 1933, 275.
- Dunn, L. R. L.** Note on the determination of free silica in coal-measure rocks, 1935, 35.
- Dunn, M. S.,** and **Hollombe, B. S.** Iodine value of a commercial Californian sardine oil, 1927, 483.
- Dunnicliff, H. B.,** and **Lal, K.** The determination of free mercury in commercial products, 1927, 329.
- Dunnicliff, H. B.,** and **Suri, H. D.** Phloroglucinol method for the determination of mechanical wood pulp in paper, 1932, 354.
- The volumetric determination of mercury, 1929, 405.
- Duparc, L.,** and **Rogovine, E.** New indicator for the volumetric determination of phosphoric acid, 1928, 509.
- Dupont, G., Desalbres, L.,** and **Bernette, A.** Crystalline salts of abietic acid. Determination of abietic acid, 1928, 665.
- Duquénos, P.** Detection of antipyrine in pyramidone, 1932, 581.
- Duquénos, P.,** and **Revel, P.** Poisoning by vapours of certain esters used as solvents, 1934, 641.
- Dureuil, E.** See Dejust, L. H.
- See also Van Stolk, D.
- Durham, E. H., Gaddum, J. H.,** and **Marchal, J. E.** Toxicity tests for novarsenobenzene (neosalvarsan). Medical Research Council Special Report No. 128, 1929, 667.
- Durrans, T. H.** Solvents (Review), 1930, 726; 2nd Ed., 1931, 695; 3rd Ed., 1934, 307.
- Durrant, P. J.** See Barry, A. J.
- Dutcher, R. A.** See Bechdel, S. I.
- Dutcher, R. A., Creighton, M.,** and **Rothrock, H. A.** Vitamin studies. XI, Inorganic blood phosphorus and bone ash in rats fed on normal, rachitic and irradiated rachitic diets, 1926, 206.
- Dutcher, R. A., Honeywell, H. E.,** and **Dahle, C. D.** Vitamin A in evaporated milks made by vacuum and aeration methods, 1927, 720.
- Duthey, M.** See Schuette, H. A.
- Dutt, S.** See Roy, A. C.

- Dworzak, H.**, and **Reich-Rohrwig, W.** Quantitative determination of calcium by means of picrolonic acid, 1931, 832.
- Simultaneous determination of orthophosphate and pyrophosphate, 1929, 435.
- Dychno, M. A.**, and **Briskin, O. M.** Hygienic evaluation of the biological properties of milk, 1928, 229.
- Dye, M.** See **Crist, J. W.**
- Dye, M., Medlock, O. C.**, and **Crist, J. W.** Association of vitamin A with greenness in plant tissue. I, Relative vitamin A content of head and leaf lettuce, 1927, 552.
- Dyer, B.** Address at the Annual General Meeting, 1935, 214.
- Estimation of the extract of coffee and chicory, 1933, 274.
- Obituary of E. W. Voelcker, 1931, 144.
- Dyer, B.**, and **Mitchell, C. A.** The Society of Public Analysts and Other Analytical Chemists. Some Reminiscences of its first Fifty Years and a Review of its Activities (Review), 1933, 119.
- Dyer, B.**, and **Taylor, G.** Report of the County Analysts for Essex for the Fourth Quarter, 1930, 1931, 251.
- Dyer, E.** See **Baudisch, O.**
- Dyer, E.**, and **Baudisch, O.** New colour test for cysteine, 1932, 325.
- Dyer, F. J.** Relationship between the antimony trichloride blue value of cod-liver oils and that of their unsaponifiable fractions, 1933, 709.
- See also **Coward, K. H.**
- Dyer, F. J.**, and **Forbes, W. B.** Diphenylamine as an internal indicator for iron, 1926, 536.
- Dyer, F. J.**, and **Wolke, F.** Variation in colour-test value of commercial samples of cod-liver oil, 1931, 49.
- Dyer, F. J., Key, K. M.**, and **Coward, K. H.** Influence of the solvent on the vitamin A activity of (a) camotene and (b) cod-liver oil, 1934, 708.
- Dyson, G. M.** Industrial chemicals from the sea, 1926, 597.
- Some aspects of the vibration theory of odour, 1928, 676.
- The Chemistry of Chemotherapy (Review), 1928, 464.
- E**
- Eagle, H. S.** On the nature of the urine sugars, 1927, 165.
- Eagles, B. A.** See **Hunter, G.**
- Eastland, C. J.** See **Barker, J. H.**
- Eastland, C. J., Evers, N.**, and **Thompson, J. H.** Extracts of parathyroid glands containing an anti-growth factor. I, 1933, 234.
- Easton, W.** See **McMillan, A.**
- Eaton, A. G.** See **Daggs, R. G.**
- Eaton, E. O.** Determination of cocaine, 1927, 650.
- Eaton, E. P.**, and **West, E. S.** Volumetric determination of alkoxy groups in organic compounds. Modification of the Zeisel procedure, 1927, 725.
- Eaton, F. J.**, and **Pexton, S.** Determination of volatile matter in coke, 1928, 399.
- Ebach, K.** See **Bömer, A.**
- Ebert, H. L.** See **Lange, N. A.**
- Eble, K.**, and **Pfeiffer, H.** Detection of heated milk, 1931, 113.
- Detection of the neutralisation of milk, 1933, 409.
- Dithizon test for the detection of heated milk, 1934, 827.
- Investigation of eggs, 1935, 478.
- Eckart, H.** Commercial apple juice and pectin products, 1926, 251.
- Refractometric studies on fruit juices, 1931, 461.
- Refractometry as an aid to the investigation of fruit juices, 1926, 40.
- Eckart, H.**, and **Diem, A.** Determination of starch in pectin and apple juices by a sedimentometric method, 1926, 524.
- Eckersley, A. M.** See **Dadswell, H. E.**
- Eckert, J. E.**, and **Spindler, L. A.** Vitamin D and resistance of chickens to parasitism, 1929, 356.
- Eckford, M. O.** Thermophilic bacteria in milk, 1927, 426.
- Eckmann, J. R.** Determination of sulphur trioxide in the presence of sulphur dioxide, 1927, 658.
- Eckstein, H.** Determination of beryllium in alloy steels, 1932, 270.
- Eckstein, H. C.** The cholesterol content of hair, wool and feathers, 1927, 422.
- Eddy, W. H.** See **Kohman, E. F.**
- Eddy, W. H., Gurin, S.**, and **Keresztesy, J.** The Williams-Waterman vitamin B₃, 1930, 591.
- Eddy, W. H., Kohman, E. F.**, and **Carlsson, V.** Vitamins in canned foods. IV, Green peas, 1926, 207.
- Edelman, D.** See **Schroeder, W. F.**
- Eder, R.**, and **Haas, W.** Micro vacuum sublimation of synthetic compounds used in medicine, 1931, 135.
- Eder, R.**, and **Kutter, F.** Acidimetric titration and composition of commercial lactic acid, 1926, 533.
- Eder, R.**, and **Schneiter, W.** Determination of cantharidin in cantharides, 1927, 40.
- Determination of podophyllin, 1927, 238.
- Determination of santonin in santonica, 1927, 40.
- Edgar, G.**, and **Calingaert, G.** Reactions of tetraethyl lead, 1929, 768.
- Edgcombe, L. J.** See **King, J. G.**
- Edington, J. W.** *Bacillus tuberculosis* in butter, 1934, 766.
- Edisbury, J. R.**, and **Others.** Absorption spectra of substances derived from vitamin A, 1932, 790.
- Edmed, F. G.** See **Dudley, S. F.**
- Edmonds, S. M.** See **Walden, G. H.**
- Edwards, A.** See **Brown, J. W.**
- Edwards, C. H.** Estimation of damage on chlorinated wool fabrics, 1933, 240.
- Edwards, F. W.** Appointed Additional Public Analyst for the Metropolitan Borough of Hammersmith, 1933, 756; for the Metropolitan Borough of Westminster, 1933, 533.

- Edwards, F. W.** Appointed Public Analyst for the Metropolitan Borough of Hammersmith, 1934, 108; of Kensington, 1934, 818; of Westminster, 1934, 30.
— Report of the Public Analyst for Hammersmith for the year 1934, 1935, 754.
— Report of the Public Analyst for the Royal Borough of Kensington for the First Quarter, 1935, 1935, 406.
— See also Chinoy, J. J.
- Edwards, F. W., Parkes, E. B., and Nanji, H. R.** A note on the analysis of iodine ointments, 1935, 747.
— Method for determining "available" and "total" carbon dioxide in baking powders and self-raising flours, 1935, 814.
- Edwards, K. B., and Lacey, R.** Ethylene glycol monoacetate as a selective solvent for the separation of paraffins from other oils, 1935, 717.
- Edwards, R. S.** Water permeability of leather, 1931, 828.
- Eggrive, E.** Detection of nitrite, nitrate and sulphite, 1927, 106.
— Reactions and reagents for the detection of organic compounds, 1932, 584; III, 1935, 189.
- Efimov, V. V.** Colorimetric method for the determination of oxygen, 1926, 213.
- Eggert, C.** See Mayer, A. E.
- Eggleston, J. A.** See Richmond, H. D.
- Eggleston, W. W.** See Black, O. F.
- Eggleton, P.** See Coward, L. H.
- Egloff, G., and Morell, J. C.** Determination of unsaturated, aromatic, naphthene, and paraffin hydrocarbons in motor fuels, 1926, 316.
- Egorow, M. S.** New method for the quantitative determination of ozone in air, 1929, 189.
- Ehrenberg, R.** See Scheibe, E.
- Ehrenberg, W.** Determination of aluminium oxide in aluminium alloys, 1933, 112.
- Ehrenstein, R.** Shea butter, 1926, 40.
- Ehrmann, W.** See Hecht, F.
- Eichler, H.** Detection of cations by means of resorufin, 1934, 300.
— Detection of chlorine and bromine in gases or solutions by means of resorufin, 1935, 121.
— Detection of diazonium salts and primary amines by means of resorufin, 1935, 190.
— Detection of hydrosulphite and nascent hydrogen by means of resazurin, 1935, 121.
— Detection of nitrates, nitrites and nitrosylsulphuric acid by the formation of resorufin, orcirufin and indophenols, 1934, 302.
— Detection of nitrite with Magdala red, 1935, 274.
— Detection of nitrobenzene and of phenol by the formation of resorufin, 1934, 297.
— Use of Magdala red for the detection of nitrites, 1935, 303.
- Eilers, H.** Titan yellow as a reagent for magnesium in the microchemistry of plants, 1928, 239.
- Eisner, A.** See Müller, J. H.
- Ekstein, H. C.** Linolic and linolenic acid contents of butter-fat, 1934, 184.
- Elam, C. F.** See Knaggs, I. E.
- Elbe, K., Pfeiffer, H., and Bretschneider, R.** Eggs (detection of preservation and ageing) 1933, 161.
- Ellen, C. A.** Method of separation of the anterior pituitary-like hormone from the urine of pregnancy, 1933, 559.
- Elder, A. L.** See Holmes, H. N.
- Elek, A., and Sobotka, H.** Kjeldahl-Pregl method applied to nitro-compounds, 1926, 214.
- Elford, E. J.** See Spielmann, P. E.
- Elias, A.** Microchemical colorimetric determination of sodium, 1935, 783.
- Elion, L.** Formation of hydrogen sulphide by natural reduction of sulphates, 1928, 169.
- Eliot, C.** Bacterial flora of the market oyster, 1927, 98.
- Eliot, C. P., and Ford, W. W.** Haemolytic properties of micro-organisms of the paratyphoid group, 1931, 58.
- Elliott, F. J.** Notes on the grinding of feeding stuffs in a power mill, 1934, 606.
- Elliott, K. A. C.** Milk peroxidase. Its preparation, properties and action with hydrogen peroxide on metabolites, 1932, 394.
- Elliott, M.** See Toennies, G.
- Ellis, B. A.** Review of Morrell and Wood's *The Chemistry of Drying Oils*, 1926, 432.
- Ellis, D.** Sulphur Bacteria (Review), 1932, 679.
— Use of sulphur bacteria as indicators in the investigation of polluted water, 1926, 530.
- Ellis, G. W.** Determination of carbonyl in aldehydes and ketones, 1927, 428.
- Ellis, L.** See Challenger, F.
- Ellis, N. R., and Hankins, O. G.** Soft pork studies. I, Formation of fat in the pig on a ration moderately low in fat, 1926, 133.
- Ellis, N. R., and Isbell, E. S.** Soft pork studies. II, Influence of the ration upon the composition of the body fat of hogs. III, Effect of fat in food upon individual fatty acids in the body fat, 1926, 524.
- Ellis, N. R., Rothwell, C. S., and Pool, W. O.** Effect of ingested cottonseed oil on the composition of body fat, 1931, 609.
- Ellis, R. H.** Appointment as Agricultural Analyst for the County of Herefordshire, 1931, 398.
- Ellison, L. R., and Hall, G. F.** The effect of varying storage conditions on the deterioration of ergosterol, 1935, 92.
- Ellman, S.** Volumetric method of assaying mercuric iodide, mercuric chloride and some other mercury compounds, 1926, 42.
- Elm, A. C., and Standen, G. W.** The yellowing of oxidised drying oils, 1932, 735.
- Elmore, J. W.** Determination of strychnine in poisoned grains, 1926, 470.
- Elmqvist, R.** See Kolthoff, I. M.
- Elphick, B. L.** Detection and estimation of medullated fibre in New Zealand Romney fleeces, 1933, 109.
- Elphick, G. K.** See Key, K. M.
- Elsbach, E. B.** See Waterman, H. I.
- Elsdon, G. D.** Address of the Chairman of the North of England Section, 1931, 284.
— Edible Oils and Fats: Their Substitutes and Adulterants (Review), 1927, 61.
— Jena sintered glass crucibles, 1926, 30.

- Elsdon, G. D.** Report of the Borough Analyst for the County Borough of Salford for 1925, 1926, 570.
- Report of the County Analyst for the County of Lancaster for 1926, 1927, 409; for 1928, 1929, 465; for 1929, 1930, 504; for 1930, 1931, 455; for 1931, 1932, 455; for 1932, 1933, 342; for 1933, 1934, 482; for 1934, 1935, 468.
- Review of Bell's *Sale of Foods and Drugs Acts*, 8th Ed., 1931, 420.
- Review of Grünsteidl's *Praktikum der Warenkunde*, 1932, 202.
- Review of Hinton's *Summary of Food Laws and Regulations*, 1934, 725.
- Review of Martindale's *The Extra Pharmacopoeia*. Vol. I, 20th Ed., 1933, 309.
- Review of Aberghalden's *Handbuch der Biologischen Arbeitsmethoden*. Vol. IV, 1929, 127.
- Review of The B.D.H. Guide to the British Pharmacopoeia, 1932, 1932, 809.
- Review of The British Pharmacopoeia, 1932, 1932, 805.
- The composition and freezing-point of cows' colostrum, 1934, 665.
- The composition of human milk, 1928, 78.
- See also Evers, N.
- See also Stubbs, J. R.
- Elsdon, G. D., and Lees, A.** Citric acid and its detection, 1933, 328.
- Elsdon, G. D., and Smith, P.** A short method for the determination of butter-fat, 1927, 317.
- Determination of palm-kernel oil and butter-fat in margarine, 1926, 72. See also list of Errata.
- The determination of butter-fat in margarine, 1927, 63.
- The examination of mixtures of coconut oil and palm kernel oil, 1927, 63.
- Elsdon, G. D., and Stubbs, J. R.** Freezing-point of milk as a means of detecting added water, 1930, 423.
- Further work on the refractometer in milk analysis, 1930, 618.
- Refraction of milks with less than 8.5 per cent. of solids-not-fat, 1928, 150.
- Review of *Bibby's Book on Milk*, 1933, 59.
- The detection and determination of oxalic acid and oxalates in stomach contents, 1930, 321.
- The freezing-point of pasteurised and sterilised milks, 1933, 7.
- The Hortvet cryoscope, 1933, 27.
- The immersion refractometer and its value in milk analysis, 1927, 193.
- The refraction of milks low in solids-not-fat, 1929, 318.
- The rising of fat in milk. The percentage of fat in cream, 1930, 124.
- The standard Polenske apparatus, 1928, 212.
- The technique of the freezing-point test for milk, 1934, 585.
- Elsdon, G. D., Taylor, R. J., and Smith, P.** The Reichert, Polenske and Kirschner values of rancid butters and margarines, 1931, 515.
- Else, W. M., and Garrow, J. M.** The Detection of Crime: An Introduction to some Methods of Scientific Aid in Criminal Investigation (Review), 1934, 583.
- Elsmie, G. V.** See Brady, O. L.
- Elson, L. A., and Morgan, W. T. J.** Colorimetric method for determination of glucosamine, and chondrosamine, 1934, 357.
- Elten, —.** Tin-foil as a packing for rindless cheese, 1929, 552.
- Elvehjem, C. A.** See Lindow, C. W.
- See also Peterson, W. H.
- See also Sherman, W. C.
- See also Stare, F. J.
- See also Todd, W. R.
- See also Waddell, J.
- Elvehjem, C. A., and Hart, E. B.** Copper content of feeding stuffs, 1929, 421.
- Quantitative methods for the determination of iron in biological materials, 1926, 258.
- Elvehjem, C. A., and Lindow, C. W.** Determination of copper in biological materials, 1929, 245.
- Elvehjem, C. A., and Peterson, W. H.** Iron content of animal tissues, 1927, 650.
- Elvehjem, C. A., and Sherman, W. C.** Action of copper in iron metabolism, 1933, 46.
- Elvehjem, C. A., Herrin, R. C., and Hart, E. B.** Iron in nutrition. III, Effects of diet on the iron content of milk, 1927, 166.
- Elvehjem, C. A., Steenbock, H., and Hart, E. B.** Distribution of copper in blood, 1929, 555.
- Effect of diet on the copper content of milk, 1929, 555.
- Elvidge, W. F.** Notes on nitrates in milk, 1934, 170.
- Elworthy, R. T.** See Atack, F. W.
- Elzas, M., and Lansberg, L. M.** Pyramidon as a reagent for blood, 1927, 167.
- Emde, H.** Cocaine and allylcocaine in narcotics, 1931, 606.
- Emerique, L.** See Javillier, M.
- Emerson, C. P., Junr.** See Helmer, O. M.
- Emerson, H.** See Hart, M. C.
- Emery, W. O., and Fuller, H. C.** Determination of *o*-phenylphenol, 1935, 634.
- Emich, F.** Microchemical Laboratory Manual (Review), 1932, 741.
- *Mikrochemisches Praktikum*, 2nd Ed. (Review), 1931, 138.
- Quantitative determination of unweighable amounts of material, 1933, 784.
- Emmerie, A.** Micro-determination of copper with urobilin, 1930, 718.
- Separation of cysteine from ascorbic acid by means of mercuric acetate, 1934, 559.
- Emmerie, A., von Eekelen, M., and Wolff, L. K.** Vitamin A and the antimony chloride reaction, 1931, 756.
- Emmert, E. M.** Chlorate method for determining nitrate nitrogen, total nitrogen and other elements in soils and plant tissues, 1929, 491.
- Colorimetric method for the determination of carbon dioxide, 1931, 836.
- Emmett, A. D., and Bird, O. D.** Halibut-liver oil. Its vitamin potency, physical constants and tolerance, 1932, 732.
- Emmett, A. M., and Carré, M. H.** Modification of the calcium pectate method for the determination of pectin, 1926, 307.
- Emsley, S.** Appointment as Agricultural Analyst for Isle of Wight, 1930, 566.

- Ender, F.** Reaction of fish-liver oils with antimony trichloride, **1932**, 789.
— See also Poulsson, E.
- Engel, H.** See Bömer, A.
- Engelder, C. J.** A Textbook of Elementary Qualitative Analysis (Review), **1934**, 511.
— Calculations of Qualitative Analysis (Review), **1933**, 573.
— Elementary Qualitative Analysis (Review), **1930**, 417; 2nd Ed., **1933**, 508.
— Elementary Quantitative Analysis (Review), **1930**, 356.
- Engemann.** See Frick.
- England, E. H.** See Richmond, H. D.
- Englis, D. T., and Mills, V. C.** A more stable alcoholic potash reagent for saponification, **1929**, 493.
- English, S.** Loss of ultra-violet transparency in glasses, **1930**, 225.
- Enklaar, C. J.** New reaction for eugenol, **1927**, 299.
- Enklewitz, M.** See Lasker, M.
- Enna, F. G. A.** Analysis of Prussian blue, **1926**, 479.
- Ensoll, R.** Bayley's Chemists' Pocket Book, 9th Ed. (Review), **1929**, 495.
- Enz, W. W. F.** See Schuette, H. A.
- Ephraim, F.** A Textbook of Inorganic Chemistry (Review), **1926**, 651; 2nd English Ed., **1934**, 309.
— Sensitive test for vanadium, **1932**, 126.
- Epik, P. A.** Solubility of antimonious and stannic sulphides in ammonia and ammonium carbonate, **1932**, 590.
- Eppenberger, W.** See Treadwell, W. D.
- Epperson, A. W.** Pyrophosphate method for the determination of magnesium and phosphoric anhydride, **1928**, 239.
- Epstein, E.** See Watt, J. M.
- Erdélyi, J.** See Rosenthal, E.
- Erdheim, E.** See Benesch, E.
- Erdős, L.** Changes in the composition of the potato during winter storage, **1934**, 418.
- Erickson, B. N., Stoner, N., and Macy, I. G.** Human milk studies. XIV, Critique of the determinations of nitrogenous constituents, **1934**, 191.
- Erlenmeyer, H., and Gärbner, H.** Heavy water content of the water in milk, **1934**, 357.
- Ermen, W. F. A.** Improved ferricyanide reagent for the detection of oxycellulose, **1935**, 426.
— Iodine mercerisation test, **1931**, 550.
— New reagent for the detection of oxycellulose, **1928**, 670.
- Ernst, F. A.** Fixation of Atmospheric Nitrogen (Review), **1929**, 195.
- Ernst, I.** See Gump, W.
- Ernst, P., and Jentschitsch, J.** Analysis of pharmaceutical drugs by means of ultra-violet rays, **1930**, 224.
- Erskine, A. M.** Aromatic hydrocarbon content of natural gas petroleum, **1926**, 476.
— Determination of aromatic hydrocarbons in light petroleum, **1926**, 475.
- Escher, H. H.** Conversion of higher fatty acids into their barium salts, **1929**, 252.
- Espezel, P.** See Jaulmes, P.
- Espil, L.** Organic matter in sea-water, **1935**, 631.
- Espil, L.** Use of methylal as a solvent in analysis, **1935**, 113.
— See also Genevois, J.
- Essery, R. E.** An apparatus for the detection of traces of fluoride by the etching method, **1931**, 28.
- Estill, H. W., and McCollum, E. V.** Separation of a substance from oils which inhibits the destruction of vitamin A by ferrous sulphate, **1927**, 720.
- Estill, H. W., and Nugent, R. L.** New confirmatory test for aluminium, **1926**, 161.
- Estreicher, T.** Detection of oxygen in liquid organic compounds, **1932**, 585.
- Etheridge, A. T.** The determination of aluminium in steel, **1929**, 141.
— The determination of phosphorus in steel alloy, steels and cast iron, **1931**, 14, 4540 See also list of Errata.
— The determination of vanadium in steel, **1928**, 423.
- Etrillard, P.** See Dienert, F.
- Etzel, G.** See King, C. G.
- Etzel, G., and King, C. G.** Seed and oil of *Johannesia princeps*, **1926**, 365.
- Eucken, A.** Der Chemie-Ingenieur. Vol. II, 4th Ed., **1933**, 508.
- Eury, J.** Detection and determination of anti-pyrine in pyrimidone, **1933**, 290.
— Volumetric determination of formaldehyde in the presence of sulphites, **1934**, 429.
- Evans, B. S.** A device for preventing the loss of stoppers, taps, etc., **1935**, 242.
— A method for the determination of small amounts of zinc in commercial nickel, **1935**, 465.
— A method for the separation and determination of arsenic, **1929**, 523.
— A moving mercury cathode apparatus, **1935**, 389.
— A new method of reduction of tin and antimony prior to titration, **1931**, 171.
— A new process for the determination of small amounts of bromide in chloride, **1931**, 590.
— A new volumetric method for the determination of beryllium, **1935**, 291.
— A rapid method for dissolving high chromium steels for the determination of sulphur, **1929**, 286.
— A rapid method of dissolving lead alloys preparatory to the determination of tin and antimony, **1932**, 554.
— A simple syphoning device, **1935**, 242.
— A wet method for the determination of silver in lead, **1926**, 79.
— Adapter collars for use in filtration, **1935**, 242.
— An apparatus for continuous percolation and for filtration in neutral atmospheres, **1926**, 229.
— An improved method for the volumetric determination of tin, **1927**, 590.
— An improved method of titrating arsenic precipitated by hypophosphorous acid, **1932**, 492.
— Arsenic - distillation apparatus without ground-glass connections, **1933**, 470.
— Methods used in the analysis of certain lead alloys, **1933**, 450.

- Evans, R. S.** New processes for the determination of trace or certain impurities in lead, **1927**, 565.
 — Review of Naish's *Select Methods of Metallurgical Analysis*, **1930**, 158.
 — Some analytical applications of sodium hydro-sulphite (antimony, bismuth, lead, cadmium), **1929**, 395; II (Separation of tin from copper, zinc, lead, etc., and from oxalic acid. Determination of tin in steel), **1932**, 362.
 — The deposition of metals on copper from cyanide solutions. I, A new method for the separation and determination of small amounts of lead, **1928**, 267.
 — See also Clarke, S. G.
- Evans, B. S., and Clarke, S. G.** A new precipitation method for the determination of vanadium, and its application to steel analysis, **1928**, 475.
 — An accurate method for the determination of mercury in solution, **1926**, 224.
- Evans, E. A.** Lubricating and Allied Oils, 2nd Ed. (Review), **1933**, 426.
- Evans, H. J.** Appointment as Public Analyst and Agricultural Analyst for the County Borough of St. Helens, **1930**, 565, 566.
- Evans, H. M.** See Lepkovsky, S.
- Evans, H. M., and Burr, G. O.** New differentiation between the antineuritic vitamin B and the purely growth-promoting vitamin B, **1928**, 349.
- Evans, H. M., and Lepkovsky, S.** Sparing action of fat on vitamin B. II, Rôle played by melting-point and degree of unsaturation of various fats, **1932**, 468; III, Rôle played by glycerides of single fatty acids, **1932**, 469.
 — Unsaturated fatty acids in diet. II, **1932**, 430.
- Evans, J.** Appointment as Agricultural Analyst for Cardigan, **1932**, 163.
- Evans, J., and Jones, A. O.** The determination of small amounts of alcohol in the human subject, **1929**, 134.
- Evans, J., and Wallis, T. E.** Coffee parchment as an adulterant of bran and sharps, **1928**, 432.
- Evans, O. M.** See Furman, N. H.
- Evans, R. W.** See Hurd, L. C.
- Evans, T. R.** The films responsible for oxidation tints on metals, **1927**, 662.
- Evenson, O. L., and McGutchen, D. T.** Use of buffers in the determination of amaranth, Ponceau 3R and Orange I by means of titanium trichloride, **1928**, 602.
- Evenson, O. L., and Nagel, R. H.** Use of buffers in the determination of colours (dyes) by means of titanium trichloride. II, **1931**, 413.
- Everest, A. E.** The Higher Coal Tar Hydrocarbons (Review), **1928**, 114.
- Everett, M. R.** Determination of sugar in blood. I, Observations upon Benedict's alkaline copper solution, **1929**, 430.
- Evers, H. H., and Strafford, N.** Analysis of mixtures of the isomeric toluidines, **1927**, 302.
- Evers, N.** Antimony trichloride colour test for vitamin A, **1929**, 612.
 — Colour test for ergot alkaloids, **1927**, 601.
 — Determination of arsenic in chemicals by the electrolytic method, **1926**, 526.
 — Notes on the determination of vitamin A, **1934**, 82.
- Evers, N.** Permanence of vitamin A in cod-liver oil as shown by the (antimony trichloride) colour test, **1930**, 287.
 — Review of B.D.H. Reagents or "Spot" Tests, **1933**, 64.
 — Review of Driver and Trease's *The Chemistry of Crude Drugs*, **1928**, 513.
 — Review of Ensoll's *Bayley's Chemists' Pocket Book*, 9th Ed., **1929**, 495.
 — Review of Freund's *Colorimetry*, **1933**, 310.
 — Review of Rogers's *A Textbook of Inorganic Pharmaceutical Chemistry for Students of Pharmacy and Pharmacists*, **1930**, 602.
 — The Chemistry of Drugs (Review), **1926**, 272.
 — The detection of small quantities of calcium, **1931**, 293. Erratum, **1931**, 396.
 — Variations in the results obtained by different observers with the antimony trichloride colour test for cod-liver oil, **1930**, 287.
 — See also Barker, J. H.
 — See also Eastland, C. J.
 — See also Haddock, L. A.
 — See also Jones, J. M.
- Evers, N., and Elsdon, G. D.** The Analysis of Drugs and Chemicals (Review), **1929**, 774.
- Evers, N., and Haddock, L. A.** Copper content of certain pharmaceutical preparations and chemicals, **1932**, 723.
- Evers, N., and Smith, W.** Analytical classification of the fish-liver oils, **1932**, 735; **1933**, 701.
 — Characteristics of halibut-liver oils, **1935**, 418.
- Evrard, —** New reagent for cadmium, **1930**, 66.
- Ewe, G. E.** Effect of heat on chloroamine-T, **1933**, 555.
- Ewing, D. T., and Wilson, M.** Electrometric titration of uranium by means of ceric sulphate, **1931**, 552.
- Eynon, L.** Review of Armstrong's *The Carbohydrates*, 2nd Ed., **1935**, 128.
 — Review of Lange's *Handbook of Chemistry*, **1935**, 126.
 — Review of Lowry's *Optical Rotatory Power*, **1935**, 499.
 — See also Lane, J. H.
- Eynon, L., and Lane, J. H.** Determination of small proportions of invert sugar in raw sugars, **1931**, 322.
 — Starch: Its Chemistry, Technology and Uses (Review), **1929**, 373.
- Eyre, J. V.** Oil development in the seed of a growing plant, **1932**, 258.
- Eyre, J. W. H.** Bacteriological Technique, 3rd Ed. (Review), **1931**, 772.
- Eyring, H.** Molecular weights of saturated vapours by the effusion method, **1928**, 617.

F

- Fabre, J. H., and Bremond, E.** Determination of lactic acid in wines, **1932**, 110.
 — Fluosilicates and wines, **1935**, 46.
- Fabre, R.** Cholesteryl allophanate and its use in biochemistry, **1927**, 163.
 — See also Belloc, G.
- Fabre, R., and Bazille, S.** Spectro-photometric study of fluoro-methaemoglobin for detecting methaemoglobin and for determining fluorides, **1934**, 125.

- Fabre, R., and Picon, M.** Distribution of bismuth in the organs after injection of aqueous solutions, **1929**, 252.
— Toxicological study of bismuth, **1929**, 55.
- Fachini, S.** Detection of olive oil obtained by extraction with solvents, **1926**, 416.
— Reagent for oil extracted by carbon disulphide, and identification of olive oil extracted by solvents, **1926**, 636.
- Fachmann, W.** See Klostermann, M.
- Fähræus, R.** See Svedberg, T.
- Faillebin, M.** See Bey, L.
- Fairhall, L. T., and Prodan, L.** Colorimetric determination of traces of cadmium in organic matter, **1931**, 412.
- Faitelowitz, A.** Importance of the acidity of tobacco for its hygienic evaluation, **1931**, 261.
- Falciola, P.** New reagent for cobalt, **1927**, 172.
- Fales, H. A.** Inorganic Quantitative Analysis, **1929**, 314, 502.
- Faragher, W. F., Morrell, J. C., and Monroe, G. S.** Determination of sulphur and sulphur derivatives of hydrocarbon in naphtha solutions and in petroleum distillates, **1928**, 54.
- Färber, E.** Simplified determination of molybdenum in steel and iron, **1927**, 303.
- Farbsalz-Gesellschaft, Berlin.** Determination of the purity of potassium and sodium ferrocyanides by titration with zinc sulphate solution, **1929**, 437.
- Fargher, R. G., and Lecomber, L. V.** Determination of starch in sized and finished cotton goods, **1931**, 825.
- Fargher, R. G., Galloway, L. D., and Probert, M. E.** Inhibitory action of certain substances on the growth of mould fungi, **1930**, 524.
- Farmer, E. H.** See Brown, W. B.
- Farmer, R. C.** Review of Marshall's *Explosives*. Vol. III, **1933**, 61.
- Farnsworth, M.** The Theory and Technique of Quantitative Analysis, **1929**, 502.
- Fashena, G. J.** See Trevorrow, V.
- Fauchet, M.** Identification of barbiturates in urine, **1935**, 51.
- Faure, A., and Pallu, R.** Measurement of the colour of liquids. Application to wines, **1935**, 276.
- Faust, O.** Artificial Silk (Review), **1929**, 497.
- Fauth, A.** See Bartels, W.
- Fawcett, E. H.** See Acree, S. F.
- Fawcett, G. S.** A recommended standard procedure for measuring the colour of oils, **1935**, 467.
- Fawns, H. T.** The determination of added phenol and cresol in milk, **1928**, 489.
- Fay, A. C.** See Aikins, G. A.
- Fay, M.** See Bodansky, M.
- Fear, C. M.** Sanio's potassium dichromate test for tannins, **1929**, 227.
— The alkaloid test for tannins, **1929**, 316.
- Fearon, W. R.** Colour reactions associated with vitamin A, **1926**, 311.
— Colour test for cyanic acid, **1927**, 46.
- Fearon, W. R., and Gillespie, W. A.** Use of tartrazine in the determination of chlorides in biological material, **1935**, 193.
- Fearon, W. R., and Mitchell, D. M.** The nitrochromic acid reaction for the detection of primary and secondary alcohols, with special reference to saccharoses, **1932**, 372.
- Fearon, W. R., and Thompson, A. C.** The urocarmine reaction, **1931**, 193.
- Federowa, A. M.** See Kanewskaja, S. J.
- Fehlmann, H. A.** See Poe, C. F.
- Feigl, F.** Detection of magnesium by diphenylcarbazine, **1927**, 730.
— Qualitative Analyse mit Hilfe von Tüpfelreaktionen (Review), **1931**, 492; 2nd Ed., **1935**, 205.
— Sensitive test for silver, **1928**, 615.
— Spot Analysis (Review), **1932**, 741.
— Spot test for the detection of free basic oxides in glass, **1933**, 642.
— Spot tests for ammonium salts, **1933**, 641.
— Spot tests for organic compounds. I, **1935**, 56.
— See also Mayr, C.
- Feigl, F., and Anger, V.** Spot tests for organic compounds. III, **1935**, 123.
- Feigl, F., and Fränkel, E.** Spot tests for hydrogen peroxide, **1934**, 370.
- Feigl, F., and Frehden, O.** Spot tests for organic compounds. VII, Tests for CH_2 - and NH_2 -groups, **1935**, 720.
- Feigl, F., and Kapulitzas, H. J.** Detection and determination of nickel in presence of much cobalt, **1931**, 204.
- Feigl, F., and Krumholz, P.** Microchemical test for carbonates, **1930**, 655.
- Feigl, F., and Leitmeier, H.** Spot test to distinguish calcite and aragonite, **1933**, 642.
- Feigl, F., and Rajmann, E.** Spot test for fluorine, **1934**, 304.
- Feigl, F., and Sucharipa, A.** Interaction of ammonia and mercurous salts, **1926**, 51.
- Feigl, F., and Weissberg, K.** Detection of carbon disulphide, **1931**, 271.
- Feigl, F., Anger, V., and Frehden, O.** Spot tests for organic compounds. II, **1935**, 57; IV, **1935**, 123.
- Feigl, F., Anger, V., and Zappert, R.** Spot tests for organic compounds. V, **1935**, 275; VI, **1935**, 342.
- Feigl, F., Klanfer, K., and Weidenfeld, L.** Iodimetric determination of chromate in presence of organic matter, **1930**, 348.
- Feigl, F., Krumholz, P., and Rajmann, E.** Detection of gold, palladium and silver with dimethylamino-benzylidene rhodanine, **1931**, 485.
— Specific test for zirconium, **1931**, 615.
- Feinberg, S.** Colorimetric determination of lead, **1934**, 433.
- Feist, K.** Effect of poisons on the larvae of flies, **1927**, 243.
- Feldmann, R. W.** Determination of caesium as iodobismuthate, **1935**, 719.
— See also Burksen, E.
- Feldstein, P., and Ward, A. M.** Nickel uranyl acetate as a qualitative reagent for sodium, **1931**, 245.
- Feliciano, R. T.** Illicit beverages, **1926**, 415.
— See also Vedder, E. B.
- Felkers, P. F.** Ferric chloride as indicator in the titration of potassium ferrocyanide with zinc sulphate, **1930**, 407.

- Fellers, C. R.** Vitamin C content of Baldwin apples and apple products, **1933**, 771.
— See also Cleveland, M. M.
- Felstead, S. T.** Sir Richard Muir: A Memoir of a Public Prosecutor (Review), **1927**, 375.
- Fenger, F., Andrew, R. H., and Vollersten, J. J.** Geographical location and iodine content of the thyroid gland, **1931**, 190.
- Fenimore, E. P., and Wagner, E. C.** Anhydrous distillation method for the determination of mercury in organic compounds, **1931**, 634.
— Inaccuracy in the determination of mercury by direct precipitation as mercury sulphide from acid solution, **1931**, 687.
- Fenwick, F., and Gilman, E.** Use of the antimony and antimony trioxide electrode for the determination of the dissociation contents of certain local anaesthetics and related compounds, **1930**, 52.
- Ferguson, A.** Review of Katz's *Die Röntgenspektrographie als Untersuchungsmethode*, **1935**, 203.
— Review of Tutin's *The Atom*, **1934**, 509.
- Ferguson, L.** See Schumacher, E. E.
- Ferguson, W. S.** Curves for use in the colorimetric estimation of carotene, **1935**, 680.
- Fernantič, S.** Rapid determination of tungsten in low-grade ores, **1934**, 646.
- Fernandez, O., and Socias, L.** Determination of santonin by means by 2:4-dinitrophenylhydrazine, **1932**, 580.
- Ferner, G. W., and Mellon, M. G.** Analytical uses of 2-propanol, **1934**, 768.
- Ferrante, J., and Bloom, A.** Identification of carbonyl compounds with 2:4-dinitrophenylhydrazine, **1933**, 714.
- Ferrari, C. G., and Bailey, C. H.** Determination of carotin in flour, **1929**, 604.
- Ferreri, G.** Determination of lead tetra-ethyl in motor fuels, **1926**, 104.
- Ferrey, G. J. W.** Analysis and composition of commercial glycerophosphates, **1926**, 526.
— Determination of nitrates in bismuth carbonate, **1929**, 756.
- Ferris, S. W.** A precision pipette viscometer, **1928**, 675.
— See also Henderson, L. M.
— See also Hill, J. B.
— See also Peterkin, A. G.
- Ferry, G. J. W.** Theophylline sodium acetate of commerce, **1931**, 675.
- Fialkow, J.** Determination of the iodine value in aqueous emulsion, **1927**, 246.
- Fichter, F., and Tschudin, W. F.** Determination of bromate in potassium chlorate, **1927**, 366.
- Ficklen, J. B.** See Hough, A. W.
- Fiehe, J.** Determination of sucrose in beer. II, **1932**, 254.
— Honey diastase, **1931**, 540.
— Origin of honey diastase, **1932**, 387.
— Quantitative determination of laevulose and sucrose, **1932**, 385.
— Quantitative determination of oxymethylfurfural in honey, **1929**, 108.
— Separation of honey, **1928**, 290.
- Fiehe, J., and Kordatzki, W.** Degree of acidity (hydrogen ion concentration) of honey and artificial honey, **1928**, 290.
— Examination of honey, **1929**, 748.
- Fiehe, J., and Kordatzki, W.** Honey diastase, **1928**, 388.
— Quantitative determination of oxymethylfurfural in honey and artificial honey, **1929**, 241.
- Field, A.** See Morgan, A. F.
- Field, J.** Studies on the starch-iodine reaction, **1931**, 612.
— See also Alsberg, C. L.
- Field, J. T.** See Poe, C. F.
- Field, W. T.** The use of ultra-violet light for the detection of solvent-extracted cocoa butter, **1930**, 744.
- Fielding, W. L.** See Parkinson, S. T.
- Fierz-David, H. E.** Künstliche Organische Farbstoffe (Review), **1927**, 372.
— Review of Bates's *The Synthesis of Benzene Derivatives*, **1926**, 430.
— Review of Beagall, Challenger, Martin and Sand's *Dyestuffs and Coat-Tar Products*, 4th Ed., **1927**, 256.
— Review of Davidson's *Intermediates for Dyestuffs*, **1926**, 219.
— Review of Horsfall and Lawrie's *The Dyeing of Textile Fabrics*, **1927**, 664.
— Review of Wood's *Chemistry of Dyeing*, 2nd Ed., **1927**, 255.
- Filandeau, G.** Fresh and preserved eggs, **1926**, 197.
- Filby, F. A.** A History of Food Adulteration and Analysis (Review), **1935**, 281.
- Filonowa, W. F.** See Komarowsky, A. S.
- Findlay, A.** Chemistry in the Service of Man, 4th Ed. (Review), **1931**, 843.
— Introduction to Physical Chemistry (Review), **1934**, 140.
— Practical Physical Chemistry (Review), 5th Ed., **1931**, 276. Erratum, **1931**, 352.
— The Phase Rule and its Application (Review), **1928**, 244.
— The Spirit of Chemistry (Review), **1931**, 140; **1935**, 578.
- Fink, H., and Hartmann, J.** Pectin in hops, **1935**, 766.
- Fink, H., and Schormüller, J.** Separation of lead as chromate from mercury and from copper, **1931**, 133.
- Finkle, P.** Fate of tartaric acid in the human body, **1933**, 291.
- Finlay, T. Y.** See Watson, C.
- Finnemore, H.** The Essential Oils (Review), **1927**, 111.
- Finter, F. B.** An Introduction to Physical Chemistry (Review), **1927**, 175.
- Firth, J. B.** Chemistry in the Home (Review), **1929**, 625.
- Fischer, H.** Detection and determination of beryllium, **1928**, 303.
— Microchemical spot tests for some of the heavy metals, using dithizon (diphenylthiocarbazone), **1931**, 208.
— Use of diphenylthiocarbazone for the detection of heavy metals, **1933**, 567.
- Fischer, P.** Assay of alkaloids in hyoscyamus leaves, **1928**, 445.
- Fischer, P., and Horkheimer, P.** Fluid extract of senega root, **1928**, 499.
- Fischer, R.** Apparatus and methods for microsublimation, **1935**, 123.

- Fischer R.** Detection of aldehydes and ketones, 1933, 569.
- Fischer, R., and Moor, A.** Detection of aldehydes and ketones. II, 1935, 124.
- Fischer, R., and Ruedl, E.** Detection of corn-cockle in flour and bread, 1930, 699.
- Fischer, R., and Stauder, F.** Microchemical tests for benzoic acid, salicylic acid and esters of *p*-hydroxybenzoic acid in food and drugs, 1931, 275.
- Fischer, R. G.** See Stout, A. W.
- Fischl, F.** Micro method for detecting and determining laevulose in presence of dextrose, other aldoses or sucrose, 1933, 424. Erratum, 1933, 570.
- Fischler, F., and Boettner, R.** Quantitative determination of methyl glyoxal by means of an alkaline solution of iodine, and its chemical mechanism, 1928, 453.
- Fisher, A. M., and Scott, D. A.** Insulin content of the pancreas in cattle of various ages, 1934, 765.
- Fisher, D. F.** See Harley, C. P.
- Fisher, E. A., and Thomlinson, —.** Rapid method for the determination of moisture in flour and other finely divided materials, 1932, 782.
- Fisher, H. J., and Bailey, E. M.** Polarimetric method for the determination of calcium gluconate, 1932, 727.
- Fiske, C. H., and Subbarow, Y.** Colorimetric determination of phosphorus, 1926, 205.
- Fitch, J. B.** See Hughes, J. S.
— See also Titus, R. W.
- Fitelson, J.** Comparison of the Monier-Williams and the A.O.A.C. methods for the determination of sulphurous acid in food products, 1929, 297.
- Fitelson, J., and Gaines, I. A.** Rapid method for determining acid-soluble phosphoric acid in eggs, 1932, 43.
- Fitter, H. R.** Determination of antimony in white metals, etc., 1927, 729.
- FitzGibbon, M.** A rapid method for the determination of arsenates, 1933, 469.
- Fixsen, M. A. B.** Review of *Bibliographical Survey of Vitamins*, 1650-1930, 1933, 186.
- Flanigan, G. E.** See Supplee, G. C.
- Flanzky, M.** Determination of small amounts of methyl alcohol in presence of ethyl alcohol and its homologues in large quantities, 1935, 632.
— Methyl alcohol in foliage leaves. Relation between the alcohol and chlorophyll, 1934, 558.
— New method for the micro-determination of methyl alcohol in presence of large quantities of homologous alcohols, 1934, 193.
— Presence of methyl alcohol in alcohols from wine, including marc wine and fruit wine, 1934, 553.
— See also Semichon, L.
- Flaschenträger, B.** Electric heater for Pregl's micro combustion, 1931, 210.
- Fleck, H. R.** The detection and determination of triethanolamine, 1935, 77.
— See also Sage, C. E.
- Fleck, H. R., and Ward, A. M.** Determination of elemental sulphur, 1934, 636.
- Fleck, H. R., and Ward, A. M.** The determination of metals by means of 8-hydroxyquinoline. Part I, 1933, 1388.
- Fleck, H. R., Greenan, F. J., and Ward, A. M.** The volumetric determination of 8-hydroxyquinoline, 1934, 325.
- Fleck, H. R., Holness, R. F. G., and Ward, A. M.** Note on some examples of fluorescence acidimetric and absorption indicators, 1935, 32.
- Fleck, L. C.** See Hawley, L. F.
- Fleckinger, J.** See Rabaté, E.
- Fleischmann, O.** See Meier, F. W.
- Fleming, R.** Sensitive reaction for cysteine, 1930, 706.
- Fleming, W. D.** Solar ultra-violet radiometry. I, Ultra-violet limit of sunlight, 1933, 373.
- Fletcher, A. E.** See Wood, D. R.
- Fletcher, L.** See Ford, J. S.
- Fletcher, L., and Westwood, J. B.** Suggested method for the determination of the dextrinolytic activity of malt, 1931, 747.
- Fleury, P.** Action of salts of mercury on the veronals, 1926, 92.
— See also Hérissé, H.
- Fleury, P., and Courtois, J.** Precipitation of sugars and polyhydric alcohols by metallic hydroxides in alkaline media. I, General character of the precipitation, 1932, 783.
- Fleury, P., and Lange, J.** Determination of periodic acid in the presence of iodic acid, 1933, 307.
- Fleury, P., and Paris, R.** Comparative action of periodic acid on α - and β -glycerophosphoric acids. New method of determining α -glycerophosphates, 1934, 118.
- Flinn, F. B., and Inouye, J. M.** Some physiological aspects of copper in the organism, 1929, 758.
- Flinn, F. B., and Seidlin, S. M.** Radium poisoning, 1930, 58.
- Flint, J. W.** See Arnaud, F. W. F.
- Floderer, S.** See Schulek, E.
- Florence, G.** Trichloroacetates of the alkaloids. Use of trichloroacetic acid in toxicology, 1927, 655.
— Alkaloid trichloroacetates. II, Separation of alkaloids from viscera, 1927, 723.
- Florentin, D.** Determination of soluble silica in cement, mortar and concrete, 1926, 480.
- Fluch, P.** Acidimetric determination of nickel as the nickel dicyandiamidine salt, 1927, 48.
- Flugge-de-Smid, R. A. H.** Recent devices for measuring the flow of air, 1929, 126.
- Flury, F., and Zernik, F.** Toxicity of thiophen, 1932, 262.
- Foa, M.** Substitution of centrifugation for filtration and calcination in the gravimetric determination of tin and lead in their alloys, 1927, 364.
- Fodor, A., and Reifenberg, A.** Researches on the fermentation of dried tobacco. I, Methods for separating nicotine and ammonia, 1926, 98.
- Foehringer, A.** See Botcharsky, S.
- Fogg, H. C.** See Rice, A. C.
- Folin, O.** Determination of sugar in blood and in normal urine, 1926, 309.
— New blood sugar method, 1928, 392.
— Note on the new ferricyanide method for blood sugar, 1929, 246.

- Folin, O.** Preparation of sodium tungstate free from molybdate, together with a simplified process for the preparation of a correct uric acid reagent, 1934, 766.
— Unlaked blood as a basis for blood analysis, 1930, 337.
- Folin, O., and Marenzi, A. D.** Improved colorimetric method for the determination of cystine in proteins, 1929, 553.
- Föllén, R.** See Von der Heide, C.
- Föllner, A.** Detection of vanadium, 1929, 308.
- Folzenlogen, R. G.** See Andrews, J. T. R.
- Fonrobert, E., and Pistor, K.** Detection of resins by Brauer's method, 1927, 247.
- Foote, H. W., and Bradley, W. M.** Determination of calcium by conversion of the oxalate into the carbonate, 1926, 269.
- Footo, C. H.** See Donnelly, J. T.
- Forbes, E. B., and Swift, R. W.** The iron content of meats, 1926, 303.
- Forbes, W. B.** Examination of commercial tannic acid, 1926, 200.
— See also Dyer, F. J.
- Ford, J. S., Tait, A., and Others.** Determination of nitrogen in yeast and brewing materials, 1933, 618.
- Ford, K. L., and Osborne, A. G.** Protective tubes for thermo-couples for determining heat penetration in processed foods, 1928, 180.
- Ford, W. W.** See Eliot, C. P.
- Foreman, F. W.** Rapid quantitative removal, and determination of the carbonic acid radical, 1928, 299.
- Foreman, F. W., and Smith, G. S. G.** Changes produced in meat extracts by the bacterium *Staphylococcus aureus*, 1928, 338.
— The control of reaction in cultures and enzymic digests, 1928, 339.
- Försee, W. T.** See Pierce, J. S.
- Forster, R. B.** Action of hot concentrated sulphuric acid on dyes, 1935, 117.
— Identification of metanilic and sulphanilic acids, 1935, 53.
- Forster, R. B., and Keyworth, C. M.** Arylamine salts of the naphthalenesulphonic acids. III, Separation of Crocein, Schäffer, R and G acids and their arylamine salts, 1927, 169.
- Forster, R. B., and Soyka, C.** Fur dyes, their oxidation and identification on the fibre, 1931, 476.
- Forsyth, J. C.** See Wright, A. M.
- Fort, M.** Heat test applied to cotton and linen fabrics, 1932, 403.
- Fosse, R.** Allantoic acid in the green parts of *Phaseolus vulgaris*, 1927, 92.
— Formation of urea and of a substance giving the same colour reaction as formaldehyde with hydrazine, on heating vegetable juices, 1926, 152.
- Fosse, R., and Bossuyt, V.** Determination of allantoic acid as xanthylurea, 1927, 558.
- Fosse, R., and Brunel, A.** Presence of allantoic acid in fungi, 1933, 628.
- Fosse, R., Brunel, A., and De Graeve, P.** Biochemical determination of allantoin in presence of urea, 1929, 479.
— Enzymic conversion of uric acid into allantoic acid, 1929, 557.
- Fosse, R., Brunel, A., and Others.** Application of the seed of *Soya hispida* deprived of uricase. Qualitative and quantitative analysis, 1931, 193.
- Foster, L. D.** Determination of New Zealand bran and pollard, 1927, 656.
- Foster, M. D.** Colorimetric determination of fluoride in water by means of ferric chloride, 1933, 712.
- Foster, R. H. K.** Use of methyl salicylate in a flowmeter, 1926, 216.
- Foucry, J.** New complex cyanogen compounds of metals, 1933, 779.
- Foucry, M.** Determination of hexamethylenetetramine by precipitation of its double uranyl sulphate, 1934, 714.
— Quinone as a reagent for amines, 1934, 713.
- Foulger, J. H.** Colorimetric determination of silicon in tissues by Isaac's method, 1927, 240.
— Two new colour tests for hexoses, 1933, 99.
- Foulk, C. W., and Bawden, A. T.** New type of end-point in electrometric titration and its application to iodimetry, 1926, 539.
- Foulk, C. W., and Horton, P. G.** Preparation of antimony-free arsenious oxide and determination of minute amounts of antimony in arsenious oxide, 1929, 619.
- Fourmont, A.** See Bruère, P.
- Fourneau, E.** See Girard, A.
- Fournier, M.** See Lyon, R.
- Fowler, R. M.** See Bright, H. A.
- Fowles, G.** Volumetric Analysis (Review), 1933, 62.
- Fowweather, F. S.** A Handbook of Clinical Chemical Pathology (Review), 1929, 775.
— Determination of iron in blood, tissues and urine, 1926, 309.
— Silica content of normal and silicotic lungs and its bearing on the problem of silicosis, 1934, 706.
- Fox, C. J. J.** Mechanical wood pulp in paper, 1932, 455.
— Review of Lipscomb's *Cellulose Acetate*, 1933, 505.
- Fox, E. L.** See Carpenter, T. M.
- Fox, J. J.** Discussion on quantitative spectroscopy and its analytical applications, 1935, 3.
— Review of *Recent Advances in Analytical Chemistry*. Vol. I, Organic Chemistry, 1931, 279; Vol. II, Inorganic Chemistry, 1931, 839.
— Review of Sproxtton's *Cellulose Ester Varnishes*, 1926, 166.
- Fox, J. J., and Bowles, T. H.** Analysis of Pigments, Paints and Varnishes (Review), 1927, 110.
- Foyn, E.** Quantitative determination of lecithin in some fats, 1931, 464.
- Francis, A. G., Harvey, C. O., and Buchan, J. L.** Determination of small quantities of lead, with special reference to urine and biological materials, 1929, 725.
- Francis, A. W.** Determination of unsaturated compounds in petroleum products, 1926, 534.
- Francis, W., and Wheeler, R. V.** Studies in the composition of coal. Methods for the rational analysis of coal, 1931, 333. Erratum, 1931, 420.
- François, L.** Examination of rye-grass seed by means of ultra-violet light, 1934, 306.

- François, M., and Normand, C.** Micrographic detection of tartaric acid in officinal preparations, **1927**, 161.
- François, M., and Seguin, L.** Determination of certain phenols by weighing their aristols, **1933**, 777.
- Determination of picric acid in solution, **1931**, 122.
- Determination of some derivatives of phenol and of salicylic acid from the weight of Lautemann's red, **1931**, 829.
- Quantitative determination of methylene blue, **1929**, 551.
- François, T.** Gelation of china wood oils (*Aleurites*) by antimony halides, **1934**, 364.
- See also André, E.
- François, T., and Droit, S.** Composition of curcas oil, **1933**, 765.
- Frank, E.** See Bleyer, B.
- Fränkel, E.** "Spot" plate which can be heated, **1933**, 501.
- See also Feigl, F.
- Frankland, P. F.** Carbon monoxide poisoning of bacteria in the absence of haemoglobin, **1927**, 295.
- Franquin, —.** See Travers, A.
- Fraps, G. S.** Determination of starch in feeding stuffs, **1932**, 526.
- Losses of vitamin *A* on drying fresh raw carrots, sweet potatoes and canned spinach, **1934**, 122.
- Fraps, G. S., and Treichler, R.** Effect of storage on vitamin *A* in dried foods, **1933**, 416.
- Variations in the vitamin *A* content of butter-fat, **1932**, 732.
- Fraps, G. S., Fudge, J. F., and Carlyle, E. C.** Determination of iodine in soils, **1935**, 631.
- Frear, D. E.** Determination of the acid-base balance in the ash of plants, **1930**, 767.
- Iodine content of Pennsylvania potatoes, **1934**, 418.
- Frearson, T. B.** See Trotman, S. R.
- Fred, E. B.** See Baumann, C. A.
- See also Marvin, G. E.
- See also Pederson, C. S.
- See also Preuss, L. M.
- See also Priem, L. A.
- See also Wilson, P. W.
- Frederick, R. C.** A modification of the Haldane general air analysis apparatus, **1927**, 340.
- A simple colorimeter, **1927**, 469.
- Carbon monoxide poisoning, **1931**, 561.
- Hempel gas analysis apparatus without absorption bulbs and its use in the examination of commercial oxygen, **1927**, 400.
- Review of Mason's *Examination of Water: Chemical and Bacteriological*, **1932**, 277.
- The air tester, **1926**, 397.
- The examination of therapeutic oxygen, **1935**, 581.
- See also Dudley, S. F.
- See also Patterson, T. C.
- See also Shaw, T. B.
- Fredholm, H.** See Ohlsson, E.
- Freeland, D. M.** Air-free water for sulphur dioxide determinations in foods, **1930**, 383.
- The extraction and determination of vanillin in chocolate and cocoa butter, **1932**, 9.
- Frehden, O.** See Feigl, F.
- Freiberger, M.** Method for determining the degree of purity of cellulose fibres, **1930**, 462.
- Freise, F. W.** Brazilian "Cedro" wood oil, **1935**, 191.
- Essential oils from mushrooms, **1935**, 414.
- French, A.** See Sullivan, F. W.
- French, H. E.** See Bickel, V. T.
- French, H. E., and Wirtel, A. F.** α -Naphthyl isocyanate as a reagent for phenols and aliphatic amines, **1926**, 472.
- French, J. M.** Colorimetric method for determination of the preservative value of hops, **1931**, 672.
- Frey, M. R.** Studies on the merino fleecé. I. Chemistry of suint, **1934**, 500; II, Separation of cholesterol and "isocholesterol" of wool wax, **1934**, 770.
- Frerichs, G.** Arsenic test of the German Pharmacopoeia, **1929**, 56.
- Frers, J. N.** Separation of zinc from aluminium, **1934**, 130.
- Fresenius, L.** Determination of rubidium and caesium, particularly in mineral waters, **1931**, 834.
- Fresenius, L., and Frommes, M.** Determination of beryllium, **1932**, 270; **1933**, 567.
- Fresenius, L., Schröder, K., and Frommes, M.** Determination of fluorine in bleende, **1928**, 304.
- Freund, H.** Colorimetry: its Applications in Analytical and Clinical Practice (Review), **1933**, 310.
- Freundlich, H.** Colloid and Capillary Chemistry (Review), **1926**, 598.
- Frey, C. N.** See Light, R. F.
- Frey, M.** See Barrenscheen, H. K.
- Frey, R. W.** Nitrogen in leather, **1927**, 47.
- See also Stuart, L. S.
- See also Veitch, F. P.
- Frey, R. W., and Clarke, I. D.** Decay of book-binding leathers, **1931**, 762.
- Frey, R. W., and Veitch, F. P.** Preservation of leather bookbindings, **1931**, 559.
- Frey, R. W., Leimbach, L. M., and Reed, E. O.** English bookbinding leathers, **1929**, 364.
- Freytag, F. C., and Smith, H. G.** Unsaponifiable lipids of ox-liver. I, Methods of separation: crystalline fractions, **1933**, 293; II, Vitamins *A* and *E*: antioxidants, **1933**, 294.
- Frezouls, J.** Detection and determination of small quantities of bromine, **1934**, 772.
- Frick and Engemann.** New method for the separation of lead and bismuth, **1929**, 617.
- Fridericia, L. S.** See Lund, H.
- Friedberger, E., and Seidenberg, E.** Feeding of rats exclusively with various kinds of bread, **1928**, 49.
- Friedemann, T. E.** Determination of lactic acid in sugar solutions decomposed by alkali, **1928**, 164.
- Friedemann, T. E., Cotonio, M., and Shaffer, P. A.** Determination of lactic acid, **1927**, 418.
- Friedrich, A.** Centrifuge tube with removable cap, **1930**, 351.
- Collected references. Quantitative determination of nitrogen by the Kjeldahl method, **1933**, 568.
- Die Praxis der Quantitativen Organischen Mikro-Analyse (Review), **1933**, 725.

- Friedrich, A., and Rapoport, S.** Rhodazonic acid as an indicator in the volumetric determination of barium, 1934, 339.
- Friend, J. N.** Editor of *Textbook of Inorganic Chemistry*. Vol. VI, Part II, Phosphorus (Review), 1934, 511.
- Friend, J. N., and Wheat, W. N.** Determination of the sulphate ion by precipitation of barium as sulphate, 1932, 559.
- Friese, W.** Chemical composition of the spores of the higher fungi, 1932, 259.
- Frischer, M.** See Margosches, B. M.
- Fritz, F.** Determination of the hexabromide value of linseed oil, 1930, 461.
— Partial iodine value of linseed oil, 1930, 343.
- Froboese, V.** New form of adulteration of eggs? 1935, 253.
— Removal of lead and tin from tinned lead tubes by tooth pastes, 1933, 296.
- Frogner, R., and Van Goetsenhoven, F.** Determination of the position of the double linking, 1934, 297.
- Froidevaux, J.** Specific characteristics of "regenerated" preserved peas, 1927, 91.
- Fromageot, C., and Porcherel, A.** Action of trypsin on different types of wool, 1932, 52.
- Fromherz, H.** See King, A.
- Frommes, M.** See Fresenius, L.
- Fron, G.** Differentiation of green and mature woods, 1927, 611.
— See also Lyon, R.
- Frost, J. F.** See Hauge, S. M.
- Frum, F. S.** See Burstein, A. I.
- Fry, H. S., and Grote, I. W.** Standardisation of the Sandmeyer reaction, with special applications, 1926, 264.
- Fry, R. M.** See Lynch, G. R.
- Fryd, C. F. M.** See McGregor, P.
- Fuchs, I. J.** Studies with methylene blue, 1930, 207.
- Fuchs, K., Ruziczka, W., and Kohn, E.** Iodimetry of meal products, 1930, 699.
- Fudge, J. F.** See Fraps, G. S.
- Fuhrmann, F.** Die Chemie der Nahrungs- und Genussmittel (Review), 1927, 499.
- Fuller, C. H. F.** See Lampitt, L. H.
- Fuller, H. C.** Orthophenylphenol as an anti-septic, 1934, 766.
— See also Emery, W. O.
- Fullerton, H. W.** See Davidson, L. S. P.
- Fulmer, E. I.** Quantitative separation of copper and cadmium by reduction with potassium formate, 1931, 687.
— See also McFarlane, W. D.
- Fulton, C. C.** Aldehyde-oxidation reactions for phenols, particularly the opium alkaloids, 1930, 141.
— Identification of alkaloids by precipitation, 1931, 121.
— Identification of atropine by means of Wagner's reaction, 1929, 608.
— Production of pseudomorphine from morphine, 1934, 49.
— Properties of pseudomorphine, 1934, 49.
— Test for phenols and for copper, 1933, 238.
— See also Williams, G. D.
- Funk, A. D.** Colorimetric determination of molybdenum, 1926, 537.
- Füner, W.** Electric heater for Pregl's micro-combustion, 1932, 199.
- Funk, H., and Demmel, M.** Determination of manganese with anthranilic acid, 1934, 435.
- Funk, H., and Ditt, M.** Determination of cobalt, nickel and copper with anthranilic acid, 1933, 567.
— Determination of zinc and cadmium with anthranilic acid, 1933, 241.
— Volumetric determination of anthranilic acid and its salts, 1933, 361.
- Funk, H., and Römer, F.** Determination of lead and mercury with anthranilic acid, 1935, 494.
- Funk, H., and von Zur-Mühlen, O.** Quantitative separation of lead and iron, 1931, 763.
- Funk, H., and Weinzierl, J.** Quantitative separation of lead and bismuth, 1930, 715.
- Furman, N. H.** Applications of ceric sulphate in volumetric analysis, 1928, 302.
— See also Allen, N.
— See also Kolthoff, I. M.
- Furman, N. H., and Evans, O. M.** Ceric sulphate in volumetric analysis. V, Potentiometric study of the reaction between ferrocyanide and ceric ions, 1929, 371.
- Furman, N. H., and Wallace, J. H.** Ceric sulphate in volumetric analysis. VI, Oxidation of hydrogen peroxide by ceric sulphate. Indirect determination of lead, 1929, 490.
— Determination of hydroquinone with ceric sulphate, 1930, 408.
— Determination of thiosulphate by means of ceric sulphate, 1931, 416.
— Indicators for the reaction between ceric and ferrous ion, 1930, 527.
- Furman, N. H., Caley, E. R., and Schoonover, I. C.** Volumetric determination of sodium, 1932, 539.
- Furter, M.** Micro-combustion of carbon and hydrogen in mercury compounds, 1931, 341.
- Fuson, R. C.** See Shriner, R. L.
- Fuson, R. C., and Tullock, C. W.** Haloform reaction. XIV, Improved iodoform test, 1934, 769.
- Fussteig, R.** New method for the determination of paraffin wax in crude oil by means of a mixture of ether, alcohol, butanone and phenol, 1933, 239.

G

- Gadd, C. D.** Determination of the pH values of turbid soil and other solutions, 1928, 351.
- Gaddum, J. H.** Determination of phosphorus in blood, 1927, 241.
— See also Bijlsma, U. G.
— See also Coward, K. H.
— See also Durham, E. H.
— See also Trevan, J. W.
- Gadreau, M.** Alkaloidal hydroferrocyanides and their analytical uses, 1927, 601.
- Gachtgens, W.** Methoden der Bakteriologischen Untersuchungen von Nahrungsmitteln (Review), 1926, 377.
- Gaffre, A.** Determination of thio-semi-carbazide by means of iodine, 1929, 188.
- Gaigerowa, A. A.** See Zwenigorodskaja, V. M.

- Gaines, A., Junr.** Potentiometric titration of strongly coloured fruit solutions containing added phosphoric acid, 1933, 39.
- Gaines, I. A.** See Fitelson, J.
- Gall, H., and Ditt, M.** Use of potassium manganate in volumetric analysis, 1932, 409.
- Galletti, N.** See Romeo, G.
- Gallimore, E. J.** See Dodds, E. C.
- Galloway, L. D.** Fungi causing mildew in cotton goods, 1930, 523.
— Moisture requirements of mould fungi, with special reference to mildew in textiles, 1935, 425.
— See also Fargher, R. D.
— See also Thaysen, A. C.
- Gallup, W. D.** Determination of the digestibility of protein by Bergeim's method, 1929, 247.
— Relation of *d*-gossypol to the toxicity of some cottonseed products, 1928, 233.
- Gamble, C. J.** See Starr, I., Junr.
- Gamble, W. B.** Chemistry and Manufacture of Writing and Printing Inks (Review), 1927, 313.
- Gangl, J., and Rumpel, W.** Deterioration value (Verdorbenheitszahl). Iodimetric determination of the oxidised products in fats and oils, 1935, 183.
- Gangl, J., and Sanchez, J. V.** Quantitative determination of arsenic by Marsh's process, 1934, 716.
- Gärbner, H.** See Erlenmeyer, H.
- Garby, C. D.** Determination of biguanide, 1926, 533.
- Gardiner, A. D.** An improved form of Sprengel tube, 1934, 172.
- Gardner, —.** See Richet, —.
- Gardner, A. D.** Microbes and Ultramicrobes (Review), 1932, 414.
- Gardner, H. A., and Van Heuckeroth, A. W.** Applications of a mobilometer, 1927, 497.
- Gardner, W.** Chemical Synonyms and Trade Names (Review), 1926, 654.
— Fertilisers and Soil Improvers (Review), 1928, 309.
- Gardner, W. M.** Review of Fierz-David's *Künstliche Organische Farbstoffe*, 1927, 372.
- Garelli, F., and Tettamanzi, T.** New reaction of triethanolamine with cobalt salts, 1934, 366.
- Garner, W.** Industrial Microscopy (Review), 1933, 313.
- Garner, W. E.** Review of Kistiakowski's *Photochemical Processes*, 1929, 127.
- Garratt, D. C.** Extraction of lead by means of diphenylcarbazone, 1935, 817.
— Review of Moor and Partridge's *Aids to the Analysis of Foods and Drugs*, 5th Ed., 1935, 646.
— The application of the furfural test for mint oils to other essential oils, 1935, 595.
— The detection of Japanese mint oil in peppermint oils, 1935, 369.
— See also Coste, J. H.
- Garrow, J. M.** See Else, W. M.
- Garton, F. L.** See Hebl, L. E.
- Gaskin, J. G. N.** A new reagent for eliminating the interference due to calcium in the volumetric Fehling's titration for invert sugar, 1935, 318.
- Gaskin, J. G. N.** See also Nickolls, L. C.
- Gaume, G.** Chemical characteristics of colloidal silver, 1931, 607.
- Gaunt, P., and Abbott, W. E.** Dissolved oxygen absorption-time relation of activated sludge effluents, 1928, 171.
- Gauthier, E. A.** See Bernardini, F.
- Gavrilow, A.** See Andrejew, P.
- Gay, P. J.** Determination of the molecular weight of linseed oil and its polymerides, 1933, 643.
- Geake, A.** Detection and determination of zinc and magnesium in sized cotton, 1933, 51.
— See also Birtwell, C.
— See also Clibbens, D. A.
- Geake, F. H.** See Cowap, J. C.
- Gebhardt, H. T., and Sommer, H. H.** Residual-current measurements in control of metal solution in milk, 1931, 814.
- Geddes, W. F., and Hunter, A.** Observations upon the enzyme asparaginase, 1928, 347.
- Gee, G. N.** See Trotman, S. R.
- Geisinger, H. H.** See Corbet, R. E.
- Gelber, E. T., and Böeseken, J.** Determination of the iodine value. II, Action of iodine chloride solutions on fatty acids with conjugated double linkings, 1929, 305.
- Gemmill, R., Brackett, R., and McCrosky, C. R.** Confirmatory test for aluminium, 1929, 366.
- Genevois, L.** Flavine in white wines, 1935, 105.
- Genevois, L., and Espil, L.** Extraction of zymoflavine by means of methylal, 1935, 111.
- Geniesse, J. C., and Soop, E. J.** Determination of the heating value of coals in monel metal bombs, 1926, 110.
- Georgi, C. D. V., and Teik, G. L.** Tonka-bean oil, 1931, 670.
- Georgia, F. R., and Morales, R.** Detection of methyl alcohol in alcoholic beverages, 1926, 252.
- Georgiades, J.** See Papavassiliou, M. J.
- Geraldes, C. de M., d'Almeida, A., and Duarte, C.** Some oleaginous forest seeds of Angola, 1931, 188.
- Gerlach, W., and W.** Clinical and Pathological Application of Spectrum Analysis; (Review), 1935, 204.
- Germstad, A.** See Volmar, Y.
- Germuth, F. G.** Colorimetric determination of titanium, 1928, 509.
— Detection of lactic acid in the presence of other organic acids, 1927, 610.
— Separation and determination of nickel and cobalt salts, 1930, 347.
— Titrimetric determination of trivalent arsenic by oxidation, 1928, 177.
- Germuth, F. G., and Mitchell, C.** Sodium alizarinsulphonate as a reagent, 1929, 308.
- Gerngross, O.** See Herfeld, H.
- Gerona, F. S.** Vitamins in oils, 1930, 588.
- Gerritzen, S. C. L., and Kauffman, M.** Detection of hardened fat in beef fat from the iodine value of the solid fatty acids separated by Twitchell's method, 1928, 44.
— Formation of volatile fatty acids on exposure of rye and wheat oils to the atmosphere, 1933, 99.

- Gersdorff, W. A.** Bibliography of Ethylene Dichloride, 1933, 126.
- Quantitative relationship between the constitution and toxicity of some rotenone derivatives, 1935, 715.
- Study of the toxicity of rotenone hydrochloride, acetylrotenone and rotenolone, using the goldfish as test animal, 1933, 297.
- Gershenfeld, L., and Miller, R. E.** Bactericidal efficiency of menthol and camphor, 1934, 55.
- Gertler, S. I.** See Jamieson, G. S.
- See also Lothrop, R. E.
- Gervay, V.** See Schelek, E.
- Gessner, H.** Die Schlämmanalyse (Review), 1931, 352.
- Gettler, A. D.** See Norris, C.
- Gettler, A. O., Niederl, J. B., and Benedetti-Picler, A. A.** Isolation, identification and quantitative determination of ethyl alcohol normally present in human and animal tissues, 1933, 369.
- Geyer, E., and Rofsch, A.** Mercurimetric determination of chlorides in milk, 1933, 162.
- Geyr, J.** See Kofler, A.
- Ghose, M. N., and Bhattacharjee, S. N.** Determination of physiological activity of hemp resin by a polarimetric method, 1935, 313.
- Ghose, M. N., and Pal, H. K.** Colour reactions for the identification of hydrogenated fish oils, 1935, 240.
- Ghose, T. P.** See Krishna, S.
- Ghosh, A. R., and Guha, B. C.** Vitamin C in Indian foodstuffs, 1935, 424.
- Gibbs, H. D.** New method of separating *p*-cresol from its isomerides and a study of its boiling point, 1927, 301.
- Behnof tests. II, Nitrous acid tests. Millon and similar tests. Spectrophotometric investigations, 1927, 169; III, The indophenol test, 1927, 360.
- Gibbs, W. E.** See Clayton, W.
- Giblin, J. C.** A volumetric method for the determination of barium and of sulphates, 1933, 752.
- Gibson, D. T.** Reaction of caryophyllene, 1928, 352.
- See also Cowie, D. W.
- Gibson, D. T., and Caulfield, T. H.** Micro-volumetric determination of methoxyl, 1935, 845.
- Micro-volumetric determination of sulphur in organic compounds containing halogen and nitrogen, 1935, 522.
- Gibson, H. J.** See Begbie, R. S.
- Gibson, J.** The pH value of culture media, 1931, 312.
- Gibson, K. S., Harris, F. K., and Priest, I. G.** The Lovibond colour system. I, Spectrophotometric analysis of the Lovibond glasses, 1928, 460.
- Gibson, R. B.** See Clark, R. B.
- Gilchrist, R.** Gravimetric determination of ruthenium, 1930, 410.
- Separation and determination of osmium, 1931, 616.
- Giles, J. K.** The Taffel and Revis method for estimating the rancidity of oils and fats, 1934, 48.
- Gill, A.** Oil Analysis (Review), 1927, 617.
- Gill, A. F.** Use of liquid sulphur dioxide in laboratory cooling devices, 1928, 306.
- Gillam, A. E.** Modified spectrophotometric method for the assay of carotene and vitamin A in butter, 1934, 561.
- See also Booth, R. G.
- See also Edisbury, J. R.
- See also Heilbron, I. M.
- Gillam, A. E., and Heilbron, I. M.** Carotenoids of butter, 1935, 564.
- Relation of the colour and vitamin A content of butter to the nature of the ration fed. II, The carotenoid and vitamin A contents of butter, 1934, 708.
- Vitamin A-active substances in egg-yolk, 1935, 564.
- Gillam, A. E., and Morton, R. A.** Antimony trichloride colour test and the ultra-violet absorption of liver oils and concentrates, 1931, 822.
- Comparison of certain methods for determining the ultra-violet intensity of a light source, 1928, 60.
- Formation of nitrite from nitrate as a measure of ultra-violet intensity, 1928, 60.
- Gillam, A. E., Heilbron, I. M., Hilditch, T. P., and Morton, R. A.** Spectrographic data of natural fats and their fatty acids in relation to vitamin A, 1931, 471.
- Gillam, A. E., Heilbron, I. M., Morton, R. A., Bishop, G., and Drummond, J. C.** Variations in the quality of butter, particularly in relation to the vitamin A, carotene and xanthophyll contents as influenced by feeding artificially dried grass to stall-fed cattle, 1933, 630.
- Gillam, A. E., Heilbron, I. M., Morton, R. A., and Drummond, J. C.** Isomerisation of carotene by means of antimony trichloride, 1932, 791.
- Gillespie, W. A.** See Fearon, W. R.
- Gillet, A. E.** See de Brouckère, L.
- Gilman, A., and Cowgill, G. R.** Determination of peptic activity. Examination and application of the Gates method of proteolytic enzyme titration, 1930, 765.
- Gilman, E.** See Fenwick, F.
- Gilman, H.** Editor of Organic Synthesis. Vol. I (Review), 1932, 675; Vol. VI, 1926, 653.
- Gilman, H., and Heck, L. L.** Influence of acid chlorides and of pyrrole on the colour test for reactive organo-metallic compounds, 1931, 199.
- Qualitative colour test for reactive organo-metallic compounds, 1929, 186.
- Gilman, H., and King, W. B.** Quantitative analysis of tin in organic compounds, 1929, 365.
- Gilman, H., and Robinson, J.** Quantitative determination of lead in organic compounds, 1928, 455.
- Gilmour, G. van B.** Determination of salt in butter and margarine, 1928, 34.
- Invert sugar as a reagent for boric acid determinations, 1926, 404.
- Gilroy, E.** Vitamin B content of commercial liver extracts and stomach preparations 1932, 120.
- Giltner, W.** General Microbiology (Review), 1928, 362.

- Gimingham, C. T.** See Warren, R. G.
- Ginsburg, J. M.** Toxicity of pyrethrum vapours to honey bees, 1930, 596.
- Ginsburg, S., and Pringsheim, M. H.** Elimination of phosphoric acid in qualitative micro-analysis, 1935, 783.
- Girard, A., and Fourneau, E.** Sensitive method for the detection, separation and determination of bismuth, 1926, 51, 159.
- Girault, F., and J.** Determination of certain local anaesthetics derived from amino-alcohol, 1935, 185.
- Giroud, A., and Bulliard, H.** Reaction of sulphhydryl-containing substances, 1933, 173.
- Gittel, W.** See Hiltner, W.
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- Givens, J. W.** See Almquist, H. J.
- Givens, J. W., Almquist, H. J., and Stokstad, E. L. R.** Transmission of light through egg-shell, 1935, 764.
- Glaister, J.** A Study of Hairs and Wools (Review), 1931, 696.
- Glanz, W. L.** Fluorescence of olive oil under ultra-violet light, 1930, 773.
- Glasgow, K. W. R.** Oil from the nuts of *Calophyllum inophyllum* (dilo oil), 1932, 530.
- Glassman, B., and Barsutzkaja, S.** Volumetric method for the determination of tin in preserves and other foodstuffs, 1929, 110.
- Glassman, B., and Posdeew, A.** Chemical detection of vitamin C, 1929, 432.
- Glassman, B., and Rochwarger, F.** Detection of incipient putrefaction and determination of saline in ammonia in flesh, 1930, 281.
- Glasstone, S.** Chemistry in Daily Life (Review), 1930, 157.
- Recent Advances in Physical Chemistry (Review), 1932, 68; 2nd Ed., 1934, 140.
- Review of Britton's *Hydrogen Ions*, 1929, 687.
- Review of Davies' *The Conductivity of Solutions*, 2nd Ed., 1933, 645.
- Review of Grant's *The Measurement of Hydrogen Ion Concentration*, 1930, 660.
- Review of Jørgensen's *Wasserstoff-Ionenkonzentration (pH)*, 1935, 854.
- Review of Kolthoff's *Die Massanalyse*. Part I, 1927, 663, 1930, 660; Part 2, 1929, 257, 1931, 842.
- Review of Kolthoff's *Indicators*, 1927, 254.
- Review of Kolthoff's *L'Emploi des Indicateurs Colorés*, 3rd Ed., 1926, 218.
- Review of Kolthoff and Fischgold's *Säure-Basen-Indikatoren*, 4th Ed., 1933, 375.
- Review of Kolthoff's *Volumetric Analysis*. Vol. I, 1929, 194; Vol. II, 1929, 691.
- Review of Kolthoff and Furman's *Potentiometric Titrations*, 1927, 253; 2nd Ed., 1932, 350.
- Review of Müller's *Laboratory Manual of Electro-Chemistry*, 1931, 621.
- Review of Reilly and Rae's *Physico-Chemical Methods*, 1934, 510.
- Glasstone, S., and Speakman, J. C.** The quantitative analysis of mixtures of nickel and cobalt, 1930, 93.
- Glaze, F. W.** See Inasley, H.
- Glennie, A. E.** Index to the literature of food investigation, No. 1, 1929, 566.
- See also Magee, H. E.
- Gleu, K.** Osmium tetroxide as catalyst for the oxidation of arsenious acid, 1934, 130.
- Volumetric determination of chlorate, 1934, 203.
- Glickmann, I.** See Whittaker, R. M.
- Glockler, G., and Roberts, L. D.** Determination of oxygen in organic compounds, 1928, 299.
- Glomaud, G.** Micro-determination of magnesium by means of hydroxyquinoline, 1934, 205.
- Glover, P. M.** See Norris, D.
- Glyn-Jones, H.** The Pharmacy and Poisons Act Explained, 1933, 652.
- Gnädinger, C. B.** Piperonal in vanilla extract, 1926, 417.
- Gnädinger, C. B., and Corl, C. S.** Effect of storage on pyrethrum flowers, 1932, 631.
- Presence of pyrethrolon and methylpyrethrolon in pyrethrum flowers, 1933, 300.
- Pyrethrum flowers. I, Determination of the active principles, 1929, 754.
- Pyrethrum flowers. IV, Relative toxicity of pyrethrins I and II, 1930, 644.
- Goert, L.** Chicory agglomerates and their adulteration, 1930, 201.
- Determination of caffeine, 1927, 162.
- Determination of caffeine in tea, 1929, 110.
- Godbert, A. L.** Laboratory methods of determining the inflammability of coal dust (Safety in Mines Research Board Report, No. 31), 1927, 713.
- Godbole, N. N., and Sadgopal.** Butter-fat (ghee), 1931, 624.
- Goddard, V. R., and Mendel, L. B.** Plant haemagglutinins with special reference to a preparation from the navy bean, 1926, 429.
- Godden, W.** Feeding value of tung-seed meal, 1934, 55.
- See also Husband, A. D.
- Godwin, H.** Plant Biology. An Outline of the Principles underlying Plant Activity and Structure (Review), 1920, 778.
- Goetsch, E., and Kendall, F. E.** Analysis of albumin and globulin in biological fluids by the quantitative precipitin method, 1935, 422.
- Goetsch, M.** Determination of the anti-scorbutic value of foodstuffs by Höjer's method, 1928, 611.
- Goetz, A. W.** Measurement of hydroxyl and hydrosulphide ions in sodium sulphide solution, 1931, 482.
- Goldberg, J. L.** Determination of iodine in organic compounds, 1934, 648.
- Goldberg, S.** See Wallis, T. E.
- Goldblatt, H., and Moritz, A. R.** Effect of heat and oxidation on the nutritive value of a protein, 1927, 292.
- On the growth-promoting property of irradiated fat in the diet, of direct irradiation and of cod-liver oil, 1927, 97.
- Golding, J.** Amyl alcohol for milk testing, 1933, 276, 531.
- The use of the air-damped balance for the determination of total solids in milk, 1934, 468.
- See also Crawford, M. E. F.
- See also Davis, J. G.

- Golding, J., and Zilva, S. S.** Influence of the cow's diet on the fat-soluble vitamins of winter milk, 1928, 295.
- Golding, W. E., and Potter, F. M.** The "brittle-point" of bituminous road materials, 1934, 780.
- Goldman, L.** Determination of the pH value of tan liquors, 1930, 463.
- Goldmanówna, C.** See Truskowski, R.
- Golod, B.** See Magnin, J.
- Golse, J.** Study of Spacu's reaction. Volumetric determination of copper, 1931, 272.
- Gonzalez-Carrero, J.** Determination of bismuth in medicinal substances, 1935, 626.
- Good, C. A., Kramer, H., and Sömogyi, M.** Determination of glycogen, 1933, 353.
- Goodbody, —.** See Richet, —.
- Goodwin, G. H.** The analysis of ferro-silicon, 1931, 21.
- Görbing, J.** See von Hahn, F. V.
- Gordon, J. J.** See Noller, C. R.
- Gordon, P. F., and Merry, J.** Separation of the components of petroleum. VI, The action of acetic acid, 1928, 55.
- Gore, H. C.** Action of papain on the polarisation of gelatin. Measurement of proteolytic activity, 1929, 762.
— Polarimetric method for determination of the saccharogenic power of flour, 1933, 761.
— Preparation of soluble starch and an improved Lintner method, 1928, 613.
— See also Józsa, S.
- Gorini, C.** Acido-proteolytic bacteria in pasteurised milk, 1931, 127.
— Action of the typhoid bacillus on milk, 1926, 641.
— Pathogenic bacteria and mixed enzymes of milk, 1927, 486.
— Stimulation of bacterial activity in milk, 1926, 530.
- Gortner, R. A.** Outlines of Biochemistry (Review), 1930, 227.
- Goss, M. J.** See Phillips, M.
- Goswami, M., and Basu, K. L.** A new constant for fixed oils—hypochlorous acid value, 1934, 533.
- Goswami, H. C., and Sarkar, P. B.** Triple nitrides of the rare earths and a micro-test for caesium, 1935, 848.
- Goswami, M., Shaha, A., and Mukerjee, B.** Colorimetric test for compounds containing CH, CH₂, and CH₃ groupings contiguous to negative groups, 1935, 114.
- Gottfried, A.** Formol titration in the investigation of honey, 1929, 670.
- Goudswaard, A.** Presence of oxalates in plants from the point of view of oxaluria, 1934, 290.
- Gould, A. G., and Carter, E. K.** Pathogenic fungus on wool cloth, 1932, 55.
- Gouzon, B.** See Bierry, H.
- Govaert, F.** Determination of halogens in organic compounds by the sodammonium method: Determination of fluorine, 1933, 107.
— Determination of halogens in organic compounds by the sodamide method, 1933, 49.
- Graber, H.** See Moser, L.
- Graff, G.** Identification of white wine made from red grapes, 1932, 660.
- Graham, A.** See Outhouse, J.
- Graham, J. H.** Photochemistry of cod-liver oil, 1934, 354.
- Graham, J. I.** See Haldane, J. S.
- Graham, J. J. C.** See Smith, C. M.
- Graham, J. M.** See Theis, E. R.
- Graham, M.** See McHenry, E. W.
- Grant, G. A.** See Harding, V. J.
— See also Young, E. G.
- Grant, J.** Detection of a banknote forgery by means of ultra-violet light, 1933, 603.
— Fading (tests for dyes), 1934, 439.
— Review of Atack's *The Chemists' Year Book*, 1927, 12th Ed., 1927, 498.
— Review of Coles' *An Introduction to Modern Organic Chemistry*, 1930, 720.
— Review of Dhéré's *Nachweis der Biologisch Wichtigen Körper durch Fluoreszenz und Fluoreszenzspektren* (Sect. II, Part 3, No. 4 of *Abderhalden's Handbuch der Biologischen Arbeitsmethoden*), 1934, 375.
— Review of Hougen and Watson's *Industrial Chemical Calculations*, 1932, 483.
— Review of Hudleston's *Chemical Affinity*, 1930, 72.
— Review of Margosches' *Die Chemische Analyse*. Vol. XXVI, 1929, 310.
— Review of Mellor's *Elementary Inorganic Chemistry*, 1930, 662.
— Review of Report of the Society of Dyers and Colourists on the Work of the Fastness Committee in Fixing Standards for Light, Perspiration and Washing, 1934, 783.
— Review of Starck's *Volumetric Analysis*, 1935, 129.
— Revision of Perkin's *Qualitative Chemical Analysis*, 5th Ed., 1935, 789.
— Ruler for the interconversion of electromotive force readings and pH values in the electrometric measurement of hydrogen ion concentration, 1930, 658.
— Solubility of antimony in water, 1929, 227.
— Testing china clay, 1934, 774.
— The determination of small quantities of antimony in the form of stibine, 1928, 626.
— The Measurement of Hydrogen Ion Concentration (Review), 1930, 660.
— The titration of quinine in ultra-violet light, 1931, 653.
— Ultra-violet light as a means of detecting artificial watermarks, 1934, 749.
— Use of ultra-violet light as a sensitive method for the measurement of the degree of water-resistance of paper, 1935, 60.
— See also Radley, J. A.
- Grant, J., and Booth, J. H. W.** The use of ultra-violet light for the detection of traces of sulphites, 1932, 514.
- Grant, J., and Procter-Smith, H.** The use of ultra-violet light for the detection of traces of sulphides, 1934, 749.
- Grasset, E.** See Verge, J.
- Grassner, F.** See Lucas, R.
- Graves, R. R.** See Swett, W. W.
- Gray, G. P., and De Ong, E. R.** Relation between effectiveness and composition of petroleum insecticides, 1926, 211.
- Gray, J. D. A.** Isolation of *B. paratyphosus B* from sewage, 1929, 184.
- Gray, T.** See Campbell, J. R.

- Grayson, E. B.** An aid to the reading of Gerber milk-fat tubes, 1934, 29.
- Greaves, R. H.** Review of Smithell's *Impurities in Metals*, 1931, 351.
- Green, A. G.** See Coplans, M. †
- Green, H. N., and Mellanby, E.** Vitamin A as an anti-infective agent, 1928, 664.
- Green, L. W., and Schoetzow, R. E.** Detection of peroxides in ether, 1932, 44.
- Green, R.** Detection in the urine of some drugs used in the treatment of malaria, 1930, 640.
- Green, S. J.** Industrial Catalysis (Review), 1928, 621.
- Greenane, J. F.** See Fleck, H. R.
- Greenbaum, F. R.** Separation of tyrosine from large amounts of cystine, 1935, 486.
- Greenberg, D. M.** Colorimetric determination of the serum proteins, 1929, 428.
- Greenberg, D. M., and Mackey, M. A.** Determination of magnesium in blood by means of 8-hydroxyquinoline, 1932, 730.
- Greenberg, D. M., Anderson, C., and Tufts, E. V.** Use of a closed titration flask in the bromometric determination of magnesium with 8-hydroxyquinoline in tissues and urine, 1935, 832.
- Greenberg, L.** See Lipman, C. B.
- Greenman, M. N., and Duhring, F. L.** Breeding and Care of the Albino Rat for Research Purposes, 2nd Ed. (Review), 1932, 680.
- Greenwald, I.** Chemistry of Jaffe's reaction for creatine. IV, Compound of creatine, picric acid and sodium hydroxide, 1928, 400; V, Isolation of the red compound, 1929, 60.
- Greenwood, C. V.** See Stocks, H. B.
- Greenwood, G. N.** See Lathbury, K. C.
- Greger, J.** Behaviour of moulds on expanded corks, 1931, 267.
- Gregg, S. J.** The Adsorption of Gases by Solids, 1934, 514.
- Gregory, J.** Transfer of moisture through fabrics, 1930, 351.
- Gregory, R., and Pascoe, T.** Quantitative determination of bile acids by means of a new colour reaction and monochromatic light, 1929, 554.
- Grendel, F.** Copper contents of foodstuffs, 1930, 700.
- Grettie, D. P., and King, C. G.** Preparation and properties of vitamin C concentrates from lemon juice, 1930, 55.
- Grettie, D. P., and Newton, R. C.** Susceptibility of fats to oxidative rancidity, 1931, 749.
- Grey, E. C.** Iodimetric determination of iron, 1929, 256.
- Grey, F. E., and Yant, W. P.** Separation of individual saturated and unsaturated hydrocarbons in coal gas by fractional distillation, 1927, 359. See also list of Errata.
- Griebel, C.** Counterfeit truffle preserve, 1935, 479.
— Detection of *p*-phenylene-diamine, 1933, 714.
— Determination of chlorogenic acid in coffee, 1934, 421.
— Determination of chlorogenic acid in raw and roasted coffee, 1933, 621.
— Determination of the essential oil in spice, 1926, 584.
- Griebel, C.** Fruit juice rich in tannin as a sensitive reagent for pectin, 1932, 385.
— Microchemical test for hydrogen peroxide and for vanillin, 1922, 200.
— Microscopical pollen analysis of honey, 1930, 583.
— Pollen analysis of honey, 1930, 334.
- Griebel, C., and Maass, H.** Serum diagnosis in the investigation of foodstuffs, 1932, 326.
- Griebel, C., and Weiss, F.** Detection of *p*-phenylene-diamine and other diamines in hair dyes, 1933, 417.
— Detection of *p*-phenylenediamine, in presence of other diamines, in hair-dyes, 1934, 197.
- Grief, W. D.** Identification of rayon (artificial silk), 1929, 364.
- Griffin, S. W., and Skinner, W. W.** Determination of small amounts of sulphur dioxide in the atmosphere, 1932, 668.
- Griffing, E. P.** See Alsberg, C. L.
— See also Cook, W. H.
- Griffith, R. H., and Holliday, G. C.** Determination of iron carbonyl, 1928, 673; 1929, 62.
- Griffith, R. O., and McKeown, A.** Photo-Processes in Gaseous and Liquid Systems (Review), 1930, 72.
- Griffith, W. H.** Determination of hippuric acid and elimination of benzoic acid as hippuric acid in rabbits, 1926, 538.
- Griffiths, C. O.** Sulphur sublimation, 1927, 602.
- Griffiths, E., and Heron, C.** The handling and transport of fish. (Food Investigation Board Report, No. 25), 1926, 350.
- Griffiths, E., Vickery, J. R., and Holmes, N. E.** The freezing, storage and transport of New Zealand lamb (Food Investigation Board Report), 1932, 574.
- Griffiths, H. N., and Hilditch, T. P.** Notes on a semi-quantitative modification of the elaidin test, 1934, 312.
— Oleic-elaidic acid transformation as an aid in the analysis of mixtures of oleic, linolic and linolenic acids, 1934, 363.
— The "elaidin" reaction, 1933, 416.
- Griffiths, H. N., Hilditch, T. P., and Rae, J.** The stability of vitamin A in cod-liver oil emulsions, 1923, 65.
- Griffiths-Jones, E.** Lead and arsenic in tartar-emetite, 1926, 201.
- Griffon, H.** Colour reaction of colophony and abietic acid, 1931, 828.
— See also Leulier, A.
— See also Meesemaeker, R.
- Grigg, F. J. T.** Distribution of arsenic in a body in a fatal case of poisoning by hydrogen arsenide, 1929, 659.
- Grimmer, W.** See Berg, R.
- Grimmett, R. E. R.** Mechanical analysis of New Zealand soils, 1926, 420.
- Grimmett, R. E. R., and Shorland, F. B.** Some characteristics of "limonites" used in the cure and prevention of bush sickness, 1935, 87.
- Grinling, G. N.** An inexpensive and economical warm room, 1934, 103.
— Commercial ground almonds and their adulteration, 1935, 461.
— See also Bacharach, A. L.
— See also Hunwicke, R. F.

- Grögli, A.** Oxygen and carbon dioxide limits in respiratory air, 1926, 256.
- Gronover, A., and Wohnlich, E.** Cadmium, as a coating metal for domestic utensils, 1927, 605.
- Lead from earthenware vessels, 1932, 662.
 - Lead in red glaze, 1929, 552.
 - Polarimetric determination of starch in marzipan substitutes, 1927, 481.
- Gros, R.** Colour-scale for the rapid determination of nitrates in water, 1935, 774.
- Rapid, accurate determination of acetone. Application to biological liquids, 1934, 362.
 - Use of piperazine in the analysis of urine and blood, 1929, 49.
- Gross, C. R., and Smith, C. M.** Colorimetric method for the determination of rotenone, 1934, 567.
- Grossfeld, J.** Determination of lecithin-phosphoric acid in egg liqueurs, 1928, 229.
- Determination of milk fat by means of the "butyric acid value," 1926, 416.
 - Determination of the molecular weights of the higher saturated fatty acids and its use for the determination of lignoceric acid in hardened arachis oil mixtures, 1930, 138.
 - Fatty acids of chicken fat and other edible fats, 1932, 112.
 - Lauric acid content of coconut oil and palm kernel oil as a means of detecting these fats in nutrient fat mixtures, 1928, 603.
 - Occurrence of high-molecular fatty acids in linseed and soya bean oil, 1930, 518.
 - Polarimetric determination of starch in pastry, 1927, 420.
 - See also Kühlmann, J.
- Grossfeld, J., and Battay, F.** Detection, determination and occurrence of butyric acid in foodstuffs, 1931, 403.
- Determination of butyric and caproic acids in edible fats, 1931, 750.
- Grossfeld, J., and Kanitz, H. R.** Detection of coal-tar colours in hens' eggs, 1935, 700.
- Grossfeld, J., and Lindemann, E.** Content of chlorides, calcium and magnesium in the cocoa nib, 1935, 256.
- Grossfeld, J., and Miermeister, A.** Detection of coconut oil and palm kernel oil by means of a test for lauric acid, 1929, 242.
- Occurrence, detection and determination of lauric acid in alcoholic beverages, 1929, 108.
- Grossfeld, J., and Peter, J.** Detection of altered eggs, 1935, 253.
- Detection of margarine and hardened oils in foodstuffs, 1935, 105.
- Grossfeld, J., and Simmer, A.** Separation and determination of solid fatty acids in edible fats, 1930, 451.
- Grossfeld, J., and Walter, G.** Contents of phosphorus, sulphur and alkalis in hens' eggs, 1934, 491.
- Grote, I. W.** New colour reaction for soluble organic sulphur compounds, 1931, 760.
- See also Fry, H. S.
- Groves, R. C.** Analysis of clays, 1934, 62.
- Mechanical analysis of heavy ferruginous soils, 1928, 350.
- Grundt, S.** Determination of lead as cyanide, 1927, 559.
- Grünsteidl, E.** Praktikum der Warenkunde (Review), 1932, 202.
- Grüss, J.** Additional tests in honey analysis, 1932, 783.
- Investigation of hydrogenase, 1926, 530.
- Guérin, E.** Detection of arsenic in the presence of selenium, 1928, 508.
- Guerrant, N. B.** See Salmon, W. D.
- Guerrant, N. B., and Salmon, W. D.** Stability of vitamin G as measured by its growth-stimulating effect, 1931, 126.
- Guevara, T.** See Berlatzky, A.
- Guha, B. C.** Chemistry of vitamin-B₂, 1931, 410.
- Investigation of vitamin B₂. I, Sources of vitamin B₂. II, Stability of vitamin B₂. III, Chemistry of vitamin B₂, 1931, 680.
 - See also Chakravorty, P. N.
- Guha, B. C., and Drummond, J. C.** Observations on the concentration of vitamin B, 1930, 148.
- Guha, K. D., Hilditch, T. P., and Lovern, J. A.** Composition of the mixed fatty acids present in the glycerides of cod-liver and certain other fish-liver oils, 1930, 456.
- Guichard, M.** Weighing by hydrostatic compensation, 1926, 596.
- Guigues, —.** Detection of cocaine by Guebert's reaction, 1928, 500.
- Guild, E. J.** A new development in filter papers, 1931, 652.
- Guild, J.** Trichromatic colorimeter suitable for standardisation work, 1927, 50.
- Guillemet, R.** Apparatus for the micro-determination of the ethoxyl and methoxyl groups and of glycerol, 1933, 247.
- Electric heating apparatus for Pregl micro-combustion, 1933, 248.
 - Use of Jena glass filters in the micro-determination of sulphur as benzidine sulphate and urea as dixanthylureate, 1933, 248.
- Guillot.** See Azern, —.
- See also Vizern, —.
- Guillot, J.** Fluorescence of olive oils. Influence of pigments, 1935, 432.
- Ultra-violet absorption of certain vegetable oils as an indication of their industrial treatment, 1935, 432.
 - See also Chevallier, A.
- Guldina, E. J.** See Tschernichow, J. A.
- Gull, H. C.** Measurement of the small volumes of nitrogen obtained by the micro Dumas method, 1935, 401.
- See also McNair, L. C.
- Gump, W., and Ernst, I.** Absorption of carbon monoxide by cuprous ammonium salts, 1930, 464.
- Gurin, C. Z.** See Kohman, E. F.
- Gurin, S.** See Eddy, W. H.
- See also Williams, R. R.
- Gurwitsch, L., and Moore, H.** The Scientific Principles of Petroleum Technology (Review), 1932, 676.
- Gustus, E. L.** See Jacobs, W. A.
- Guthrie, F. C., and Nance, J. T.** Revision of Cummings and Kay's *Textbook of Quantitative Chemical Analysis*, 6th Ed., 1935, 503.
- Guthrie, J. D.** Determination of peroxidase activity, 1931, 194.
- Iodimetric method for determining oxidase activity, 1930, 709

- Guthrie, J. M., and Philip, G. G.** Colorimetric determination of the preservative value of hops, **1933**, 411.
 — Colorimetric method for the determination of soft resins in hops, **1930**, 703.
- Guyot, R.** Viscous fermentation of mineral waters, **1928**, 170.
- Gwyer, A. G. C., and Pullen, N. D.** The separation of aluminium as phosphate in the presence of calcium phosphate, with special reference to the action of milk on aluminium, **1932**, 704.
- H**
- Haag, H. B., and Hatcher, R. A.** Keeping properties of digitalis and some of its preparations, **1929**, 608.
- Haas, A.** Quantum Chemistry (Review), **1931**, 275.
- Haas, A. J.** See Dawsey, L. H.
- Haas, P.** Liberation of methyl sulphide by seaweed, **1935**, 628.
 — Review of Klein's *Handbuch der Pflanzenanalyse*. Vol. II, Part 1, **1932**, 347; Vol. III, **1933**, 185; Vol. IV, Part 3, **1933**, 648.
 — Review of Meirion Thomas's *Plant Physiology*, **1935**, 788.
 — Review of Onslow's *The Principles of Plant Biochemistry*. Part 1, **1931**, 346.
- Haas, P., and Hill, T. G.** An Introduction to the Chemistry of Plant Products. Vol. I, 4th Ed. (Review), **1928**, 681; Vol. II, 2nd Ed., **1929**, 775.
- Haas, P., and Russell-Wells, B.** Irish moss mucilage and a method for its detection, **1927**, 265.
- Haas, W.** Crystallographic examination of the micro-sublimates of synthetic compounds used in medicine, **1931**, 136.
 — See also Eder, R.
- Haase, L. W.** Determination of small quantities of copper with 5, 7-dibromo-*o*-oxyquinoline, **1929**, 618.
 — Quantitative colorimetric determination of nitrates, **1926**, 426.
 — See also Marsson, V.
- Haber, E. S.** See House, M. C.
- Hackb, J. W. D.** A Chemical Dictionary (Review), **1930**, 231.
- Hackhofer, H.** See Moser, L.
- Hackney, N.** The Quantitative Analysis of Inorganic Materials (Review), **1930**, 775.
- Hackspill, L., Rollet, A. P., and Nicloux, M.** Argon in blood, **1926**, 357.
- Haddock, L. A.** The determination of traces of bismuth in presence of other metals, **1934**, 163.
 — The determination of traces of thallium in presence of other metals, **1935**, 394.
 — See also Evers, N.
- Haddock, L. A., and Evers, N.** Determination of strychnine in Easton's Syrup, **1931**, 674; **1932**, 44.
 — The determination of minute amounts of copper in the presence of iron and certain other metals, **1932**, 495.
- Haddon, E.** New volumetric method for the determination of reducing sugars, **1932**, 530.
- Haddon, L. C.** A new method of applying the precipitin test, **1934**, 342.
- Haqjiff, M. D.** Determination of sugars from the oxygen content of the cupric oxide, **1928**, 604.
 — New acidimetric method for the determination of glucose by means of Fehling's solution, **1928**, 604.
- Haehn, H., and Leopold, H.** Influence of anti-septics on yeast autolysis, **1935**, 193.
- Hafstad, M.** See Lindeman, T.
- Hagen, S. K.** Hydrogen cyanide in Lima beans. II, Influence of heat on the poisonous properties of the beans, **1930**, 453.
- Haib, F. L.** Determination of soluble fluorides, **1927**, 106.
 — Determination of traces of bromide in presence of chloride, **1933**, 567.
 — Improved method for the determination of magnesium by means of *o*-hydroxyquinoline, **1931**, 833.
 — Micro-detection of aluminium, **1932**, 804.
 — Reactions occurring in the iodimetric determination of chromate, **1935**, 430.
 — Spot test for nitrites, **1932**, 65.
 — Tests in capillary tubes applied to the identification of nitrates and nitrites, **1931**, 134.
- Hahn, F. L., and Hartleb, E.** Acidimetric determination of magnesium, zinc, aluminium and copper in presence of oxyquinoline, **1927**, 495.
- Hahn, F. L., and Vieweg, K.** Oxyquinoline as a reagent for magnesium, zinc and aluminium, **1927**, 431.
- Hahn, F. L., and Weiler, G.** Volumetric determination of calcium, **1927**, 172.
- Haigh, L. D.** Use of *Aspergillus niger* in testing potash availability (in fertilisers), **1935**, 630.
- Haines, R. B.** Growth of micro-organisms on chilled and frozen meat, **1931**, 611.
 — See also Cooper, E. A.
- Haines, R. B., and Smith, E. C.** The storage of meat in small refrigerators. Food Investigation Report, No. 43, **1934**, 175.
- Haines, R. T. M.** Sodium morrhuate. Variation in commercial samples, **1933**, 352.
- Haines, R. T. M., and Drummond, J. C.** Grouping of halibut-liver oils, **1934**, 358.
 — Properties of halibut-liver oil, **1935**, 356.
- Haitinger, M.** Fluorescence methods in micro-analysis, **1935**, 201.
 — Fluorescence microscopy with strong illumination, **1932**, 131.
- Halberstadt, S.** Determination of tungsten with *o*-hydroxy-quinoline, **1933**, 302.
- Haldane, J. B. S.** Affinity of different types of enzymes for their substrates, **1928**, 307.
 — Carbon monoxide as a tissue poison, **1928**, 51.
 — Monographs in Biochemistry. Enzymes (Review), **1931**, 343.
- Haldane, J. S.** The investigation of carbon monoxide poisoning, **1931**, 571.
- Haldane, J. S., and Graham, J. I.** Methods of Air Analysis, 4th Ed. (Review), **1935**, 278.
- Haldane, J. S., and Makgill, R. H.** Note on the use of alkaline pyrogallate solution in gas analysis, **1933**, 378.
- Hale, W. J.** Chemistry Triumphant, **1933**, 508.
- Hale, W. S.** See Balls, A. K.

- Haley, D. E.** See Jenson, C. O.
- Haley, J. M.** Detection of alcohol adulterants, 1927, 100.
- Hall, E. H.** Determination of starch in cereal products, with special reference to rice, 1932, 41.
- Hall, G. F.** See Ellison, L. R.
— See also Powell, A. D.
- Hall, G. F., and Keightley, W. M.** The detection and estimation of aloes in *post-mortem* cases, 1933, 518.
— The excretion of aloes, 1934, 152. Erratum, 1934, 338.
- Hall, G. F., and Powell, A. D.** Analysis of acriflavine, B.P. and neutral acriflavine, 1935, 108.
- Hall, M.** See Adams, J.
- Hall, W. T.** Analytical Chemistry. Vol. I, Qualitative Analysis, based on the German Text of F. P. Treadwell; 7th English Ed. (Review), 1931, 349; Vol. II, Quantitative Analysis, 1929, 258.
— Oxalate method for separating calcium and magnesium, 1929, 65.
— Textbook of Quantitative Analysis (Review), 1931, 422; 2nd Ed., 1935, 853.
- Hallett, H. S.** See Mattick, E. C. V.
- Halliday, N.** Further investigations on the new vitamin B growth-promoting factor for rats, found in whole wheat, 1934, 765.
— See also Kohman, E. F.
- Hamann, G.** See Rupp, E.
- Hamence, J. H.** A modified procedure for the detection of nitrates in milk, 1935, 532.
— The separation and determination of traces of lead in the presence of small amounts of bismuth, 1933, 461; 1934, 274.
— The separation and determination of traces of lead in the presence of small quantities of iron, 1932, 622.
- Hamer, F. M.** A method of determining iodine in organic compounds containing selenium, 1933, 26.
- Hamid, M. A.** The determination of potassium in the presence and absence of sulphates, 1926, 450.
- Hamilton, E. H.** See Smith, C. M.
- Hamilton, J.** See Church, M. B.
— See also Paine, H. S.
- Hamilton, T. S.** See Mitchell, H. H.
- Hamilton, W. F.** See Barbour, H. G.
- Hammarsten, G.** Titration of ammonium molybdate, 1928, 179.
- Hammer, B. W.** Dairy Bacteriology (Review), 1929, 442.
- Hammett, L. P.** See Walden, G. H.
- Hampshire, C. H.** Volumetric Analysis (Review), 1927, 311.
- Hampshire, C. H., and Page, G. R.** Note on the sulphuric acid test for liquid paraffin, 1934, 635.
- Hamy, A.** Quantitative separation of dextrans and gum arabic, 1929, 253.
— Schlagdenhaufen's reaction for magnesium, 1927, 251.
- Han, J. E. S.** Iodimetric determination of chromium (chromic oxide) in chrome alum, 1929, 307.
— Monosodium glutamate as a chemical condiment, 1929, 751.
- Han, J. E. S., and Chu, T. L.** Volumetric benzidine method for the determination of acetic acid (acetate radicle) in lead acetate, 1931, 830.
- Hanak, A.** Colorimetric method for the determination of the amount of potassium ferrocyanide required for fining wine, 1930, 583.
— Detection of carrots in marmalade, 1930, 582.
— Determination of copper in green vegetables, 1930, 583.
- Hanak, A., and Kürschner, K.** Determination of formic acid in fruit juices, 1931, 116.
- Hancock, G. L.** Occurrence of glass fragments in foods packed in glass containers. (Ministry of Health Report, No. 37), 1927, 284.
- Handley, F. W.** See Hodgson, H. H.
- Handovsky, H., and Others.** Poisoning by manganese compounds, 1926, 362.
- Hanes, C. S.** Application of the method of Hagedorn and Jensen to the determination of larger quantities of reducing sugars, 1929, 349.
- Hanika, F.** See Moser, L.
- Hanke, M. T.** Determination of the tyrosine content of proteins, 1928, 672.
— Histidine and tyrosine content of a number of proteins, 1926, 204.
— Quantitative determination of tyrosine and histidine in protein. A method for determining tyramine in protein-containing mixtures, 1926, 204.
- Hankins, O. G.** See Ellis, N. R.
- Hann, R. M.** See Jamieson, G. S.
- Hanna, M. I.** See Campbell, W. R.
- Hansche, R., and Still, E. U.** Psyllium seed, 1933, 767.
- Hansen, H. V.** Accelerated exposure test for varnishes and lacquers, 1929, 192.
- Hansen, K.** Alcohol in the blood of motor drivers, 1933, 359.
- Hansen-Schmidt, E.** See Kaufmann, H. P.
- Hanus, J., and Hovorka, V.** Reaction of cupric salts with thiosulphate, 1929, 254.
- Hanus, J., Jilek, A., and Lukas, J.** Benzoyl-methylglyoxime as a precipitant for palladium, 1926, 109.
- Harde, E.** Effects of ascorbic acid (vitamin C) on toxins, 1934, 765.
- Harden, A.** Monographs on Biochemistry. Alcoholic Fermentation, 4th Ed. (Review), 1932, 546.
- Harden, A., and Macfarlane, M. G.** Fermentation by yeast preparations, 1930, 455.
- Harding, E. P.** See Stoppel, A. E.
- Harding, G.** See Cocks, L. V.
- Harding, V. J., and Grant, G. A.** Determination of galactose in blood and urine, 1932, 183.
- Harding, V. J., and Nicholson, T. F.** Use of some micro-organisms in sugar analysis, 1934, 54.
- Harding, V. J., Nicholson, T. F., and Grant, G. A.** Biological reagent for the determination of glucose, 1933, 172.
- Hardman, A. F., and Barbehenn, H. E.** Volumetric method for the determination of free sulphur in rubber, 1935, 337.
- Hardon, H. J., and Wirjodihardjo, W.** Determination of magnesium in extracts of soil in hydrochloric acid by the oxine method, 1935, 52.

- Härdtl, H.** Microscopy of the husks of the principal cereals, **1935**, 326.
- Hardy, F.** See Adam, W. B.
- Hardy, F., and Lewis, A. H.** Rapid electro-metric method for measuring the "lime requirements" of soils, **1929**, 184.
- Hardy, J. I.** Methods for studying the scale structure of animal fibres, **1932**, 200.
- Hardy, Z.** See Bougault, J.
— See also Pénau, M. H.
- Haring, M. E., and Leatherman, M.** Quantitative precipitation of sulphides in buffered solutions. I, Cobalt sulphide, **1931**, 207.
- Haring, M. E., and Westfall, B. B.** Quantitative precipitation of sulphides in buffered solutions. II, Nickel sulphide, **1931**, 207.
- Harington, C. R., and Randall, S. S.** Water-soluble iodine content of desiccated thyroid gland, **1933**, 166.
- Harlay, V.** Acid methyl ethers of phosphoric acid, **1934**, 705.
- Harley, C. P.** Relation of picking time to acetaldehyde content and core breakdown in Bartlett pears, **1930**, 151.
- Harley, C. P., and Fisher, D. F.** Presence of acetaldehyde in Bartlett pears and its relation to pear scald and breakdown, **1928**, 227.
- Harmasch, E. P.** See Tananaeff, N. A.
- Harmsma, A.** See Van Italie, L.
- Harnes, A. E.** Colorimetric determination of lipid phosphorus in blood, **1928**, 391.
- Harral, J. C.** An apparatus for the determination of small quantities of amino nitrogen, **1931**, 527.
— Detection and determination of benzoic acid, **1930**, 445.
— The formaldehyde titration of milk proteins and its use in the detection of reconstituted creams, etc., **1933**, 605.
- Harral, J. C., and Jaffé, F. W. M.** The determination of active chlorine, **1932**, 309.
- Harris, C. R.** See Wheeler, A. S.
- Harris, F. K.** See Gibson, K. S.
- Harris, H.** See Bamford, T. G.
- Harris, J. A., Yntema, L. F., and Hopkins, B. S.** The element of atomic number 61: Illinium, **1926**, 372.
- Harris, L. J.** Combination of proteins, amino-acids, etc. (in milk), with acids and alkalis, and their combining weights, **1926**, 39.
— See also Birch, T. W.
- Harris, L. J., and Moore, T.** Hypervitaminosis and vitamin balance, **1929**, 249; IV, An instance of vitamin balance, **1930**, 149.
- Harris, L. J., and Ray, S. N.** Specificity of hexuronic (ascorbic) acid as antiscorbutic factor, **1933**, 489.
— Standardisation of the antiscorbutic potency of ascorbic acid, **1934**, 359.
- Harrison, D. C.** The indophenol reaction in biological oxidations, **1930**, 146.
— See also Mellanby, E.
- Harrison, G. A.** Chemical Methods in Clinical Medicine (Review), **1931**, 346.
- Harrison, J. W. E.** Official titles of the silver proteins, **1926**, 585.
— See also La Wall, C. H.
- Harrison, K.** Use of sinalbin as an indicator, **1932**, 401.
- Harrison, R. R., Peacock, R. R., and Wright, S.** Action of X-radiation upon vitamin D in activated ergosterol, **1928**, 667.
- Harry, R. G.** Determination of manganese by means of persulphate, **1932**, 197.
— The application of pipeidinium piperidyl-dithioformate to the colorimetric determination of copper, **1931**, 736.
- Harry, R. G., and Rudge, E. A.** Benzidine and tolidine as reagents in analysis, **1932**, 334.
- Hart, A. C.** Determination of the concentration of dilute glue liquors by means of the immersion refractometer, **1928**, 615.
- Hart, E. B.** See Elvehjem, C. A.
— See also Lepkovsky, S.
— See also Phillips, P. H.
— See also Sherman, W. C.
— See also Steenbock, H.
— See also Titus, R. W.
— See also Wadde^l, J.
- Hart, E. B., Steenbock, H., and Lepkovsky, S.** Effect of storage on the antirachitic factor of cod-liver oil, when mixed with ground grains, **1926**, 94.
- Hart, L.** Aluminium in the ash of plant materials, fruit juices and similar products, **1932**, 525.
— Analysis of insecticides containing fluorine compounds, **1929**, 621.
- Hart, M. C.** See Speer, J. H.
- Hart, M. C., and Emerson, H.** Quantitative determination of α -dihydroergosterol in ergosterol from ergot, **1932**, 328.
- Hart, M. C., and Heyl, F. W.** Sterols of ergot, **1930**, 454.
- Hart, R.** Determination of neutral fat in sulphonated oils, **1929**, 366.
— New method for the determination of neutral fat in sulphonated oils, **1930**, 62.
- Hartleb, E.** See Hahn, F. L.
- Hartman, W. W.** Editor of *Organic Synthesis*. Vol. XIV (Review), **1934**, 328.
- Hartmann, B. G.** Catawba grape juice, **1926**, 151.
- Hartmann, B. G., and Hillig, F.** Application of the Stahre reaction to the accurate determination of citric acid, **1927**, 549.
— Determination of citric acid in fruits and fruit products, **1928**, 443; **1930**, 396.
— Determination of citric acid in milk, **1933**, 38.
— Determination of inactive malic acid in fruits and fruit products, **1933**, 482.
— Determination of *l*-malic acid in fruits and fruit products, **1933**, 40.
— Determination of starch in flour by diastase and acid hydrolysis, **1931**, 322.
— Determination of tartaric acid in fruits and fruit products, **1930**, 397.
— Influence of peptic digestion in the determination of total carbohydrates in cereal products, **1927**, 160.
— Use of lead acetate in the determination of the acidity of fruit products, **1930**, 517.
- Hartmann, J.** See Fink, H.
- Hartmann, W.** Determination of molybdenum in ores, **1926**, 108.
— Estimation of the age of flour, **1930**, 516.
- Hartnagel, J.** See Treadwell, W. D.

- Hartridge, H.** Carbon monoxide poisoning, 1928, 395.
 — The preparation of nitric oxide haemoglobin, 1931, 571.
- Hartung, W. H., Crossley, F., and Munch, J. C.** Sivadjian's colour reaction for identifying ephedrin, 1931, 467.
- Hartwell, G. A.** See Bacharach, A. L.
- Harvey, A.** Laundry Chemistry (Review), 1927, 62.
- Harvey, C. O.** Determination of the strength of glacial acetic acid, 1926, 238.
 — The determination of iodine in biological substances, 1935, 762.
 — The preparation of iodine-free potassium hydroxide, 1934, 479.
 — See also Francis, A. G.
 — See also Trace, L. H.
- Harvey, E. H.** Essential oils as anti-ferments, 1928, 612.
 — Measurement of the radiation output of ultra-violet lamps, 1933, 249.
 — Refractometric measurement of anti-freezing mixtures of ethylene glycol type, 1933, 109.
- Harvey, R. B.** See Regeimbal, L. O.
- Harwood, H. F.** See Bennett, H.
- Harwood, H. F., and Theobald, L. S.** The determination of small quantities of nickel in rock analysis, 1933, 673.
- Hashi, K.** Constituents of the fatty acids of soya-bean oil, 1928, 343.
 — Isolation of dipalmito-olein from soya-bean oil, 1928, 343.
 — Solubility of rape oil in alcohol of varying concentrations, 1931, 325.
 — Solubility of tea seed oil in alcohol of varying concentrations, 1931, 325.
- Haslam, J.** The oxalates of calcium, strontium, barium and magnesium, 1935, 668.
 — The quantitative separation of aluminium from iron, 1933, 270.
- Haslam, J., and Murray, W.** Notes on the determination of chromium in the presence of iron, aluminium and phosphoric acid, with perchloric acid as oxidising agent, 1934, 609.
- Hassan, A.** Glucose in normal urine, 1929, 50.
- Hastings, A. B.** See Avery, B. F.
- Hastings, J. J. H.** See Walker, T. K.
- Hastings, J. J. H., and Walker, T. K.** Modification of the gravimetric method for the evaluation of hops, 1928, 104.
- Hatcher, R. A.** See Haag, H. B.
- Hatschek, E.** An Introduction to the Physics and Chemistry of Colloids (Review), 1926, 112.
 — Laboratory Manual of Elementary Colloid Chemistry (Review), 1926, 112.
- Hattersley, C.** The identification of common edible sea fish, 1935, 69.
- Hauer, E.** See Dubsky, J. V.
- Haugaard, G.** See Sørensen, M.
- Hauge, S. M.** Inheritance study of the distribution of vitamin A in maize. II, Vitamin A in hybrid red maize, 1930, 339.
- Hauge, S. M., and Carrick, C. W.** A differentiation between the water-soluble growth-promoting and anti-neuritic substances, 1926, 586.
- Hauge, S. M., and Frost, J. F.** Inheritance study of the distribution of vitamin A in maize. III, Vitamin A content in relation to yellow endosperm, 1930, 339.
- Hausbrand, E.** Principles and Practice of Industrial Distillation (Review), 1926, 58.
- Hauser, E. A.** Latex, Its Occurrence, Collection, Properties and Technical Applications (Review), 1930, 601.
- Hausner, J.** Determination of available chlorine in bleaching preparations, 1927, 433.
- Hausa, L.** See Ledrut, J.
- Hawkins, E. M.** Obituary of William Partridge, 1934, 69.
- Hawkins, F. S., and Partington, J. R.** Determination of potassium in potassium iodide, 1927, 614.
- Hawkins, J. A.** Micro time method for the determination of reducing sugars, and its application to analysis of blood and urine, 1929, 750.
 — Reducing powers of different sugars for the ferricyanide reagent used in the gasometric sugar method, 1929, 749.
- Hawley, F. G.** Determination of fluorine, 1926, 426.
- Hawley, H.** A milk calculation formula for use at tropical temperatures, 1933, 272.
 — Determination of the "extract" of coffee, 1933, 222.
 — Report of the Government Analyst for Madras for the year ending September, 1931, 1933, 34; September, 1932, 1933, 610.
 — The determination of iodine values by the pyridine sulphate bromide method, 1933, 601.
 — The determination of milk-solids by drying *in vacuo* on asbestos, 1933, 333.
 — The phytosteryl acetate test as a routine method in the examination of butter-fats with border-line Reichert-Meissl values, 1933, 529.
- Hawley, L. F., and Fleck, L. C.** A hydrolysis number determination for wood cellulose, 1927, 611.
- Haxthausen, H.** Cultivation of streptococci, 1927, 604.
- Haynes, D., and Brown, J. W.** Mineral content of apples, 1928, 658.
- Hays, I. M.** See Salmon, W. D.
- Hazard, R.** Action of picric acid on tropine silicotungstate, 1928, 446.
- Hazley, V.** See Smith, E. L.
- Heading, W. R.** Analysis of some mercurial ointments, 1935, 109.
- Heap, H.** Appointed Public Analyst for the Borough of Glossop, 1933, 155; for the Borough of Lancaster, 1930, 383.
- Heap, M. E.** See MacLeod, F. L.
- Hearn, J. E.** See Lyttle, J. D.
- Heathcoat, F.** The determination of carbon in graphited cup greases, 1934, 28.
- Heaton, N.** Volatile Solvents and Thinners (Review), 1926, 379.
- Hebbs, L.** Review of Dorée's *Methods of Cellulose Chemistry*, 1933, 788.
- Hebl, L. E., Rendel, T. B., and Garton, F. L.** Effect of tetraethyl lead on the octane number of petrol, 1933, 239.
- Hecht, F.** See Brantner, H.

- Hecht, F., and Ehrmann, W.** Determination of thorium with *o*-hydroxyline, 1935, 272.
— Quantitative determination of thorium by means of picrolonic acid, 1935, 272.
- Hecht, F., and Reich-Rohrwig, W.** Quantitative micro-analysis of uranites, 1934, 368.
- Hecht, F., Reich-Rohrwig, W., and Brantner, H.** Determination of lead by means of picrolonic acid, 1934, 130.
- Hecht, O.** See Vortmann, G.
- Heck, J. E., Hunt, H., and Mellon, M. G.** Nitron as a precipitant for nitrates, 1934, 18.
- Heck, L. L.** See Gilman, H.
- Heckzo, T.** Precipitation of aluminium by means of *o*-hydroxyquinoline in presence of iron, nickel, cobalt, copper, chromium and molybdenum, 1935, 120.
- Heess, W.** Sulphate "pictures" as a means of identifying inks and estimating the relative ages of writing, 1935, 338.
- Heesterman, J. E.** Determination of the saccharin content of foodstuffs and beverages, and particularly of beer, 1932, 323.
— See also Van Waegeningh, J. E. H.
- Hefferman, P.** Biophysics of silica and etiology of silicosis, 1929, 757.
— Silica in mineral waters, 1929, 686.
- Hegland, J. M. A.** Quantitative methods for the determination of theobromine in diuretic, 1932, 725.
— Titration of barbital with silver nitrate by the method of H. Budde, 1935, 259.
- Heiduschka, A., and Neumann, G.** Determination of water and crude fat in substances rich in fat by means of trichlorethylene, 1930, 530.
- Heiduschka, A., and Pyriki, C.** Frozen wine, 1934, 419.
- Heiduschka, A., and Thomas, H.** Tests for coffee substitutes (malt coffees), 1933, 164.
- Heilbron, I. M.** See Edisbury, J. R.
— See also Gillam, A. E.
— See also Morton, R. A.
- Heilbron, I. M., and Morton, R. A.** Characterisation of vitamin A. I, Spectroscopic evidence, 1931, 545.
- Heilbron, I. M., and Spring, F. S.** Colour reactions and absorption spectra of sterols in relation to structure, 1930, 402.
— Studies in the sterol group. Part VIII, The reaction of isoeergosterol, 1930, 211.
- Heilbron, I. M., Gillam, A. E., and Morton, R. A.** Specificity in tests for vitamin A. New conception of the chromogenic constituents of fresh and aged liver oils, 1931, 823.
- Heilbron, I. M., Kamm, E. D., and Morton, R. A.** Absorption spectra of oils and oil constituents, with special reference to provitamin D, 1928, 168.
- Heilbron, I. M., Kamm, E. D., and Owens, W. M.** Contribution to the study of the constitution of squalene (spinacene), 1926, 535.
- Heilingötter, R.** See Wolf, H.
- Heim, G.** Determination of ethylenic nitriles, 1931, 129.
- Heim, O.** The determination of cobalt in driers, japans, alloys, etc., 1929, 464.
— The determination of formaldehyde in certain pharmaceutical preparations, 1929, 537.
- Heimann, H. L.** See Wat, J. M.
- Hein, W.** See Lapin, L.
- Heinrich, B. J.** See Sheard, A. C.
- Heisig, G. B., and L. K.** Identification of halides in presence of thiocyanate, 1935, 639.
- Helberg, E.** See Mohler, H.
- Heller, K.** Collected References. Arsenic, antimony, tin and bismuth, 1934, 575.
— Collected references to the microchemistry of aluminium, chromium, iron, titanium and uranium, 1933, 305.
— Collected references to the micro-detection of cobalt, nickel, manganese and zinc, 1933, 305.
- Heller, K., and Stary, Z.** The alkaline earth metals. Methods of qualitative and quantitative micro-analysis, 1931, 691.
- Heller, V. G.** Vitamin synthesis in plants as affected by light source, 1928, 231.
- Heller, V. G., and Burke, A. D.** Toxicity of zinc, 1927, 554.
- Hellwig, A.** See Quam, G. N.
- Helmer, O. M., and Emerson, C. P., Junr.** Iron content of the whole blood of normal individuals, 1934, 190.
- Henderson, A.** See Davidson, L. S. P.
- Henderson, A., and Roberts, J.** Automatic pipette, 1929, 727.
- Henderson, J.** See Marsh, F.
- Henderson, J. A. R.** See Callan, T.
- Henderson, J. B.** Report of the Government Analyst for Queensland for the year ending 30th June, 1925, 1926, 245; 1926, 1927, 31; 1927, 1928, 39; 1928, 1928, 652; 1929, 1929, 746; 1930, 1931, 32; 1932, 1933, 98; 1934, 1935, 40.
- Henderson, L. J.** See Drummond, J. C.
- Henderson, L. M., and Ferris, S. W.** Determination of paraffin wax in crude wax, 1927, 301.
- Henderson, L. M., and Kracek, F. C.** Fractional precipitation of barium and radium chromates, 1927, 303.
- Henderson, W. F., and Dietrich, H. E.** Cellulose sausage casings, 1927, 37.
- Hendrick, J.** Review of Russell's *Soil Conditions and Plant Growth*, 1932, 342.
- Hendricks, S. B.** See Markley, K. S.
- Hendriksz, R. D., and Reclaire, A.** Determination of ionone, 1929, 122.
- Hendry, J., and Berry, P. A.** Eucalyptol and eucalyptus oil. B.P. revision, 1935, 481.
- Henne, A. L.** A laboratory ozoniser, 1929, 685.
— See also Hubbard, D. M.
— See also Scott, E. W.
- Henneberg, W.** See Heucke, L.
- Hennig, K.** See Von der Heide, C.
- Henrich, R. G.** See Merrill, H. B.
- Henrich, A. T.** Molds, Yeasts and Actinomycetes (Review), 1930, 774.
- Henry, K. M.** See Kon, S. K.
- Henry, T. A.** Review of Allen's *Commercial Organic Analysis* Vol. VIII, 5th Ed., 1931, 68.
— Review of Barger's *Ergot and Ergotism*, 1932, 348.
— Review of *Chemistry in Medicine*, 1929, 312.
— Review of Dyson's *The Chemistry of Chemotherapy*, 1928, 464.
— Review of Evers and Elsdon's *The Analysis of Drugs and Chemicals*, 1929, 774.

- Henry, T. A.** Review of Haas and Hill's *An Introduction to the Chemistry of Plant Products*. Vol. I, 4th Ed., 1928, 681; Vol. II, 2nd Ed., 1929, 775.
- Henseler, —.** Standardisation of wool, 1927, 103.
- Henville, D.** A continuous extractor, 1928, 380.
— A misleading label, 1930, 279.
— Analysis of sodium salicylate and sodium benzoate, 1927, 149.
— Methylene blue in tinned peas, 1930, 629.
— Notes on the Hortvet cryoscope, 1932, 569. See also list of Errata.
— Report of the Borough Analyst for Stepney for 1925, 1926, 513; for 1926, 1928, 92; for 1927, 1929, 491; for 1928, 1929, 540; for 1929, 1931, 30; for 1930, 1931, 741; for 1931, 1933, 96; for 1934, 1935, 552.
— The detection, determination and oxidation of sulphur dioxide, 1929, 228.
— The detection of isopropyl alcohol, 1928, 416.
— The detection of reconstituted milk, 1932, 570. See also list of Errata.
— The solubility of sulphur, 1930, 384.
- Henville, D., and Paulley, W. M.** Dyes as an indication of adulteration in butter, 1929, 413.
- Hepburn, J. R. I.** A new and simple method for the determination of carbon dioxide in carbonates, 1926, 622.
— The determination of carbon dioxide in carbonates, 1927, 276.
- Hepburn, J. S., and Moore, H. McD.** Relative concentration of esterase and lipase in adipose tissue, 1934, 292.
- Hörbst, R. M., and Clarke, H. T.** Oxidation of amino acids by means of silver oxide, 1934, 425.
- Herd, C. W.** Review of Kent-Jones's *The Practice and Science of Breadingmaking*, 1935, 203.
— See also Kent-Jones, D. W.
- Herd, C. W., and Kent-Jones, D. W.** Determination of starch in cereal products, 1931, 184.
- Herd, M.** A rapid limit test for the detection and determination of sulphur dioxide in foods, 1930, 35.
- Herfeld, H., and Gerngross, O.** Reagent for cobalt, 1933, 639.
- Hérissey, H., and Chalmeta, A.** Determination of reducing sugars, especially dextrose, in presence of hydrocyanic acid by means of alkaline copper solutions, 1929, 43.
— Determination of reducing sugars, particularly of glucose, by alkaline copper solutions in the presence of hydrocyanic acid, 1929, 421.
- Hérissey, H., Fleury, P., and Joly, M.** Comparative action of periodic acid on certain hexoses and on the artificial glycosides derived therefrom, 1934, 714.
- Hermano, A. J., and Anido, F.** Chemical and biological analyses of *kitiki* (rice bran) extracts, 1933, 356.
- Herrndorfer, E.** Caffeine content of coffee during ripening and drying, 1933, 485.
— Nephelometric determination of coffee, 1933, 502.
- Heron, C.** See Griffiths, E.
- Herrin, R. C.** See Elvehjem, C. A.
- Herrmann, A.** See Strecker, W.
- Herscovici, S.** See Ionesco-Matiu, A.
- Hertwig, R., and Bailey, L. H.** Determination of the total solids of bread, 1926, 38.
— Determination of unsaponifiable matter in wheat flour, alimentary pastes and eggs, 1926, 306.
- Hertz, W.** Determination of molybdenum in alloy steels, 1930, 411.
- Hervieux, C.** Indican in the milk of the cow and goat, 1932, 178.
- Herzenstein, H.** See Cherbuliez, E.
- Herzner, R., and Mann, O.** Detection of incipient putrefaction of meat, 1926, 634.
- Herzog, W.** Gravimetric method for the determination of the bases of the diphenyl series and a new complex salt of these bases, 1926, 592.
- Hess, A. F., and Anderson, R. J.** Activation of sterol fractions by ultra-violet irradiation, 1927, 653.
- Hess, A. F., Weinstock, M., and Sherman, E.** Antirachitic value of irradiated cholesterol. II, Separation into an active and inactive fraction, 1926, 638.
- Hess, W. C., and Sullivan, M. X.** The *o*-benzoquinoline test for cysteine, 1933, 104.
- Hessler, M. C.** See Sherman, H. C.
- Hetler, R. A.** See Meyer, C. R.
- Hetterich, H.** Application of microchemical methods to the analysis of pigments of paintings, 1931, 136.
— Microchemical examination of pictures, 1932, 198.
— Micro-extraction apparatus (for examination of paintings, etc.), 1932, 542.
- Heuberger, K.** Rapid determination of tin in tinplate, 1929, 769.
- Heucke, L., and Henneberg, W.** Detection of volutin in the living yeast cell by means of neutral red, 1935, 193.
- Heudebert, —.** See Van Stolk, D.
- Heukers, R. T.** See Münch, A. P. W.
- Hewer, C. L.** Preservation of anaesthetic ether, 1929, 352.
- Hewitt, J. T.** Review of Allen's *Commercial Organic Analysis*. Vol. VI, 1928, 356.
— Review of Baker's *Tautomerism*, 1934, 580.
— Review of Holleman's *Textbook of Organic Chemistry*, 1931, 211.
— Review of Schmidt's *Textbook of Organic Chemistry*, 2nd English Ed., 1932, 593.
- Heyes, T. F.** Micro method for the determination of the copper number of cellulose, 1928, 301.
- Heyes, T. F., and Holden, H. S.** Action of penicillium on artificial silks, 1932, 471.
- Heyl, F. W.** See Hart, M. C.
- Heyrovský, J.** Electrolytic analysis with the mercury dropping-cathode, 1927, 731.
— Use of polarographic methods in micro-analysis, 1933, 423.
- Hibbard, P. L.** Iodimetric determination of the halogens, 1926, 538.
- Hibbard, P. L., and Stout, P. R.** Determination of potassium by titration of the cobaltinitrite with permanganate, 1933, 302.
- Hibbott, H. W., and Wheeler, R. V.** Studies in the composition of coal. A method of determining the decomposition point of bituminous coal, 1934, 850.

- Hickethier, C. F., and Jacobucci, A.** Interference of iodate in the nitrite test, **1926**, 48.
- Hickman, J. O.** See Nabarro, D.
- Hicks, J. A.** The Laboratory Book of Mineral Oil Testing (Review), **1926**, 217.
- Hicks, J. S.** See Rising, M. M.
- Hieger, I.** Spectra of cancer-producing tars and oils and of related substances, **1930**, 460.
- Hiers, G. S.** Modified liquid sealed mechanical stirrer, **1927**, 52.
- Higginbottom, C.** See Challenger, F.
- Highberger, J. H.** See Moore, E. K.
- Highberger, J. H., and Youel, D. L.** Determination of lactic acid in vegetable tan liquors, **1932**, 666.
- Hilbok, H.** See Kofler, L.
- Hildebrand, F. C.** See Caldwell, M. L.
- Hildebrand, J. G.** See Raiford, L. C.
- Hilditch, T. P.** Catalytic Processes in Applied Chemistry (Review), **1930**, 68.
- General features common to most "fruit coat fats," **1933**, 484.
- Review of Jamieson's *Vegetable Fats and Oils*, **1932**, 349.
- Review of Simmons' *Soap*, **1932**, 484.
- Some characteristic features of the glycerides present in marine animal oils, **1935**, 568.
- The Industrial Chemistry of the Fats and Waxes (Review), **1928**, 63.
- See also Banks, A.
- See also Bhattacharya, R.
- See also Christian, B. C.
- See also Collin, G.
- See also Dean, H. K.
- See also Drummond, J. C.
- See also Gillam, A. E.
- See also Griffiths, H. N.
- See also Guha, K. D.
- Hilditch, T. P., and Houlbrooke, A.** Composition of the fatty acids present as glycerides in elasmobranch oils, **1928**, 246.
- Hilditch, T. P., and Jones, E. E.** Composition of commercial palm oils. I, The fatty acids and component glycerides of some palm oils of low free acidity, **1930**, 701; II, The fatty acids and component glycerides of some palm oils of high free acidity, **1931**, 463.
- Regularities in the glyceride structure of some technically important vegetable fatty oils, **1934**, 194.
- Some ill-defined acids of the oleic series. II, Acids in parsley seed oil, **1927**, 429. Part IV, "Cheiranthic acid" of wall-flower seed oil, **1928**, 109.
- The component glycerides of partially hydrogenated fats, **1932**, 661.
- The fatty acids and component glycerides of some New Zealand butters, **1929**, 75. Erratum, **1929**, 152.
- Hilditch, T. P., and Lovern, J. A.** Head and blubber oils of the sperm whale. II, Investigation of the component wax esters and general structure of the oils. III, Quantitative determination of the higher fatty alcohols present, **1930**, 152.
- Mixed fatty acids in head and blubber oils of the sperm whale, **1928**, 352.
- Hilditch, T. P., and Paul, H.** Component fatty acids of glycerides of partly hydrogenated rape oil, **1935**, 839.
- Rate of formation of fully-saturated glycerides during hydrogenation of different natural fats, **1935**, 828.
- Hilditch, T. P., and Priestman, J.** Component glycerides of Borneo (illipé) tallow, **1930**, 396; of stillingia (Chinese vegetable) tallow, **1930**, 761.
- The rapid determination of solid saturated fatty acids, **1931**, 354.
- Hilditch, T. P., and Rigg, J. G.** Component glycerides of piqui-a fats, **1935**, 417.
- Hilditch, T. P., and Saletore, S. A.** Certain azelao-glycerides obtained during the oxidation of some simple synthetic and natural glycerides, **1933**, 485.
- Fatty acids and glycerides of solid seed fats. I, Composition of the seed fats of *Allanblackia stuhlmannii*, *Pentadesma butyracea*, *Butyrospermum Parkii* (Shea) and *Vateria indica* (Dhupa), **1932**, 113.
- Hilditch, T. P., and Sleightholme, J. J.** Glyceride structure of butter-fats, **1931**, 541.
- Nature of antioxidants present in natural fats. I, Separation of fatty derivatives from "antioxidogens" by distillation, **1932**, 320.
- Variations in the component fatty acids of butter due to changes in seasonal and feeding conditions, **1930**, 702.
- Hilditch, T. P., and Stainsby, W. J.** Compound glycerides of hen body-fats, **1935**, 559.
- Fatty acids and glycerides of solid seed fats. II, Composition of some Malayan vegetable fats, **1934**, 632.
- Hilditch, T. P., and Vidyarthi, N. L.** Fatty acids of cohune nut fat, **1926**, 228.
- Some ill-defined acids of the oleic series. I, Hypogaic acid, **1927**, 429.
- Hilditch, T. P., Jones, E. C., and Rhead, A. J.** Body-fats of the hen, **1934**, 707.
- Hilditch, T. P., Riley, T., and Vidyarthi, N. L.** Fatty acids of seed oils of *Brassica* species. Composition of rape, rapeseed and mustard seed oils, **1928**, 108.
- Ill-defined acids of the oleic series. Part III, "Raptic acid" and other acids of rape and mustard seed oils, **1928**, 109.
- Hilger, A., Ltd.** Recent Applications of Absorption Spectrophotometry (Review), **1932**, 482.
- Hill, A. V.** See Drummond, J. C.
- Hill, C. A.** Determination of small quantities of bismuth in urine, **1926**, 97.
- Hill, D. W.** Use of methoxyacetic anhydride for the determination of hydroxyl groups, **1934**, 429.
- Hill, E. W.** See Amberger, K.
- Hill, J. B., and Ferris, S. W.** Relation between boiling-point and some other properties of petroleum products, **1926**, 105.
- Hill, T. G.** See Haas, P.
- Hill, W. L.** See Whittaker, C. W.
- Hill, W. L., and Jacob, K. D.** Determination and occurrence of iodine in phosphate rock, **1933**, 303.
- Hillebrand, W. F., and Lundell, G. E. F.** Applied Inorganic Analysis (Review), **1930**, 351.

- Hillen, J.** Tests of the suitability of acetic acid for clinical work, **1935**, 47.
- Hiller, A.** See Van Slyke, D. D.
- Hillig, F.** See Hartmann, B. G.
- Hills, C. A.** See Simmons, W. H.
- Hilman, G. C.** See Raiford, L. C.
- Hiltner, W.** New electrode-combination for rapid potentiometric analysis, **1933**, 723.
- Hiltner, W., and Gittel, W.** Separation of mercury from arsenic, antimony and tin, **1935**, 428.
- Hinard, G., and Boury, M.** Red colour of oil in preserved sardine tins, **1930**, 454.
- Hinck, C. F.** See Soyenkoff, B. C.
- Hind, H. L.** Determination of reducing sugars by means of Fehling's solution, **1926**, 352.
— See also Hopkins, R. L.
- Hind, H. L., and Randles, H. B.** Handbook of Photomicrography (Review), **1927**, 561.
- Hinks, E.** Obituary of E. T. Brewis, **1933**, 732.
— Obituary of J. Webster, **1927**, 116.
— Presidential Address, **1929**, 201; **1930**, 238.
— Review of Bailey's *Chemistry of Wheat Flour*, **1926**, 114.
— Review of Cox's *Chemical Analysis of Foods*, **1926**, 164.
— See also Mojr, D. D.
- Hinshaw, W. K.** See Titus, R. W.
- Hinton, C. L.** A Summary of Food Laws and Regulations (Review), **1934**, 725.
— Review of Spencer's *A Handbook for Cane-Sugar Manufacturers and their Chemists*, **1930**, 419.
— The examination of fruits and jams by lead precipitation, **1934**, 248.
- Hinton, C. L., and Macara, T.** The determination of aldose sugars by means of chloramine-T, with special reference to the analysis of milk products, **1927**, 668. See also list of Errata.
— The determination of laevulose in sweetened condensed milk, **1931**, 286.
- Hirano, S.** Determination of iodide by photometric titration, **1934**, 573.
— Determination of urushiol in lacquer, **1935**, 572, 718.
- Hirsch, M.** Determination of gallic acid in the absence of tannin, **1927**, 656.
- Hirsch, P.** See Tillmans, J.
- Hirsch, P., and Delp, O.** Fractional titration of wine vinegar. Determination of non-volatile acids, **1932**, 111.
- Hirsch, W.** See Tillmans, J.
- Hirschfelder, A. D., and Serles, E. R.** Simple adaptation of Kolthoff's colorimetric method for determination of magnesium in biological fluids, **1934**, 423.
- Hirst, H.** See Bliss, H.
- Hirst, H. R., and King, A. T.** Determination of alkali and acid in wool, **1926**, 212.
- Hirt, J.** Determination of Sparteine, **1929**, 672.
- Hitchen, C. S.** Review of Smith's *Metallurgical Analysis by the Spectrograph*, **1934**, 208.
- Hitchens, R. M.** Solubility of vanillin and coumarin, **1932**, 388.
- Ho, K., Wan, S., and Wen, S. H.** Iodine value of tung oil, **1935**, 569.
- Hoag, L. E.** See Papish, J.
- Hoagland, C. L.** See West, E. S.
- Hoagland, R.** Antineuritic and water-soluble B vitamins in beef and pork, **1929**, 432.
- Hoagland, R., and Powick, W. C.** Chemical study of the flesh of emaciated cattle, **1926**, 249.
- Hoagland, R., and Snider, G. G.** Beef extract as a source of vitamin C, **1930**, 593.
— Vitamin A in "oleo oil" and oleostearine, **1926**, 311.
- Hobbie, R.** See von Hevesy, G.
- Hobson, R. P.** Micro method for determining semicarbazones and its application to the analysis of ketones, **1929**, 562.
— See also Tattersfield, F.
- Hodges, F. W.** See Arnall, F.
- Hodgson, H. H., and Handley, F. W.** Method for direct methylthiolation and its application in the preparation of some substituted thioanisoles, **1928**, 53.
- Hodgson, T. R.** Appointed Agricultural Analyst for the County Borough of Stockport, **1935**, 35.
— Appointed Public Analyst for County Borough of Bury, **1934**, 172; of Hyde, **1934**, 344; of Stockport, **1934**, 750.
- Höeg, F. A.** Analysis of sodium nitrite, **1927**, 433.
- Hoepfner, W.** Chlorogenic acid content of coffee, **1933**, 702.
— Reactions for caffeic acid and chlorogenic acid, **1933**, 100.
- Hoepfel, R. W.** See Swift, E. H.
- Hoff, R. W.** Determination of small proportions of butyl chloride and diethyl phthalate together in ethyl alcohol, **1931**, 683.
— Determination of small proportions of hydrocarbon in alcohol containing acetone, **1931**, 682.
— The determination of hydrocarbons in alcohol containing acetone, **1934**, 687.
- Hoff, R. W., and Macoun, J. M.** The determination of methyl and ethyl alcohols in mixtures containing acetone and its homologues, **1933**, 749.
- Hoffer, A.** See Kürschner, K.
- Hoffman, A.** See Jacobs, W. A.
- Hoffman, J. I.** Determination of cobalt in magnet and high-speed tool steels, **1932**, 671.
— Use of zinc oxide in the determination of cobalt and manganese, **1932**, 272.
- Hoffman, W. F.** An alcohol-soluble protein isolated from polished rice, **1926**, 205.
— See also Cortner, R. A.
- Hoffman, W. S.** Micro-determination of pentose in yeast nucleic acid and its derivatives, **1927**, 421.
— See also Jacobs, H. R. D.
- Hofmann, R.** Tests for nicotine in the presence of pyridine and its derivatives, **1932**, 199.
- Hogan, A. G., and Hunter, J. E.** The plural nature of vitamin B, **1928**, 505.
- Hogan, G.** Review of *Spirit Tables, Specific Gravity at 80°/80° F.*, **1933**, 723.
- Hogstad, A., Junr.** American wormseed oil, **1926**, 356.
- Hohenberg, E.** See Rappaport, F.
- Hohl, H. O.** Precision gas-holder for constant pressure, **1934**, 139.

- Holbil, S. A.** See Lundsgaard, I. C.
- Holborow, A. G.** Examination of goats' milk for unboiled milk, 1929, 658.
- Report of the City Analyst and Bacteriologist for Gibraltar for the year 1926, 1928, 36; for 1927, 1929, 104; for 1928, 1929, 592; for 1930, 1931, 656; for 1931, 1933, 33; for 1932, 1933, 533; for 1933, 1934, 689; for 1934, 1935, 817.
- Holden, G. W.** See Lozinski, E.
- Holden, H. F.** Presence of glutathione in the corpuscles of mammalian blood, 1926, 95.
- Holden, H. S.** See Heyes, T. F.
- Holdridge, C. E.** See McClendon, J. F.
- Holleman, A. F.** A Textbook of Organic Chemistry. 6th Ed. (Review), 1926, 650; 7th Ed., 1931, 211.
- Holleman, A. F., and Cooper, H. C.** A Textbook of Inorganic Chemistry (Review), 1928, 184.
- Hollens, W. R. A., and Spencer, J. F.** Electro-metric determination of thallium, 1935, 672.
- Holley, K. T., Pickett, T. A., and Brown, W. L.** Iodine-content of Georgia vegetables, and water as a factor in its variation, 1935, 622.
- Holliday, G. C.** See Griffith, R. H.
- Hollman, E. C. M. J.** Scopoletine reaction for *Hyoscyamus* extracts, 1931, 819.
- Hollombe, B. S.** See Dunn, M. S.
- Holmes, A. D., and Pigott, M. G.** Effect of vitamin potency of cold-pressed cod-liver oils, 1926, 207.
- Holmes, A. D., and Remington, R.** Arsenic-content of American cod-liver oil, 1934, 633.
- Holmes, H. N.** Laboratory Manual of Colloid Chemistry (Review), 1928, 407; 3rd Ed., 1934, 441.
- Introductory Colloid Chemistry (Review), 1934, 441.
- See also Corbet, R. E.
- Holmes, H. N., Ramsay, J., and Elder, A. L.** Platinised silica gels as catalysts for the oxidation of sulphur dioxide, 1929, 771.
- Holmes, N. E.** See Griffiths, E.
- Holmes, W. C.** Iodimetric evaluation of methylene blue, 1928, 111.
- Holmyard, E. J.** Makers of Chemistry (Review), 1932, 810.
- Simple Qualitative Analysis, 1929, 130.
- Holness, R. F. G.** See Fleck, H. R.
- Holt, D. A.** See Papish, J.
- Holt, M. L.** Study of Dotreppe's method for the determination of tungsten, 1935, 54.
- Holter, H.** See Linderström-Lang, K.
- Holter, H., and Andersen, B.** Comparison of the pepsin and rennin activities of the gastric secretion of different animals, 1935, 110.
- Holthoff, W.** Application of ultra-violet rays and fluorescent indicators, 1933, 180.
- Holzer, H.** See Strebing, R.
- Holzer, H., and Reif, W.** Sensitive test for gold, 1933, 302.
- Honegger, P.** Polarimetric determination of sucrose in sweetened condensed milk, 1926, 496.
- Honeywell, E. M.** See Bills, C. E.
- Honeywell, E. M., and Bills, C. E.** Cerevisterol, a sterol accompanying ergosterol in yeast, 1933, 104.
- Honeywell, H. E.** See Bechdel, S. I.
- See also Dutcher, R. A.
- Honz, P.** Measurement and significance of the surface tension of sugar solutions, 1926, 427.
- Hönigschmid, O.** See Baxter, G. P.
- Honneyman, W.** Flax wax, 1926, 535.
- Hooker, H. D.** See Ahmann, C. F.
- Hopkins, B. S.** See Harris, J. A.
- See also Strover, N. M.
- Hopkins, E. S.** Manganese interference in the o-tolidine test for available chlorine, 1927, 496.
- Water Purification Control (Review), 1934, 67.
- Hopkins, F. H.** Separation and analysis of pigments in lacquer, 1927, 103.
- Hopkins, R. H.** Selective fermentation. Alcoholic fermentation of mixtures of glucose and fructose by brewer's and Sauterne yeasts, 1931, 463.
- Selective fermentation of glucose and fructose by brewer's yeast, 1928, 668.
- Hopkins, R. H., Hind, H. L., and Day, F. E.** Malt analysis. British and Continental methods and the inter-relationship of results, 1925, 108.
- Hopkins, S. J.** Colloidal iodine preparations, 1931, 543.
- Hopkins, S. J., and Chibnall, A. C.** Growth of *Aspergillus versicolor* on higher paraffins, 1932, 398.
- Hopkins, S. J., and Young, F. G.** Chemical composition of shea fat, 1932, 42.
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- Höppler, F.** New universal viscometer, 1933, 179.
- Horat, L. E.** See Sullivan, J. T.
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- Horn, D. W., and Wilson, M. A.** Transition points of mixtures of cow's butter and cocoa butter, 1934, 350.
- Horn, M. J.** Detection of selenium in organic compounds and soils, 1934, 192.
- See also Jones, D. B.
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- Horowitz-Wlassowa, L. M.** Tests for the soundness of meat, 1928, 496.
- Horsfall, R. S., and Lawrie, L. G.** The Dyeing of Textile Fibres (Review), 1927, 664.
- Horton, P. G.** See Foulk, C. W.
- Horváth, I.** Composition of Szegeder Edelsüss paprika meal products, 1935, 829.
- Hosking, J. R., and Short, W. F.** New melting-point apparatus, 1926, 270.
- Hossack, J.** Acidimetry of wines, 1934, 12.
- The determination of esters in alcoholic liquids, 1935, 170.
- Hothersall, A. W., Clarke, S. G., and Macnaughtan, D. J.** Analysis of sodium stannate tinning solutions, 1934, 365.
- Hougen, O. A., and Watson, K. M.** Industrial Chemical Calculations (Review), 1932, 483.
- Hough, A. T.** Precipitation of tannin by means of hexamethylenetetramine, 1931, 827.
- Hough, A. W., and Ficklen, J. B.** Determination of magnesium with 8-hydroxyquinoline—gravimetrically, volumetrically and colorimetrically, 1931, 206.

- Hough, G. J.** Determination of bismuth, 1929, 308.
- Houghton, R. E.** Use of 2, 4-dinitro-phenyl-hydrazine as a quantitative reagent for carbonyl compounds. I, Benzaldehyde, 1934, 363.
- Houlbrooke, A.** Appointed Additional Public Analyst for County Borough of Leeds, 1934, 30.
- See also Hilditch, T. P.
- Houng, L.** See Da-Tchang, T.
- House, M. C., Nelson, P. M., and Haber, E. S.** The vitamin A, B and C content of artificially v. naturally ripened tomatoes, 1929, 301.
- Houseman, P. A., and Swift, C. E.** Studies in liquorice root and liquorice extract. IV, New substance in Chinese liquorice root, 1930, 51.
- Houston, B., and Johnson, T. B.** Nitrogen tetroxide as a reagent for diazotisation, 1926, 102.
- Houston, J.** An improved miscometer, 1929, 30.
- The miscometer: An apparatus for obtaining composite samples, 1926, 453.
- The use of amyl alcohol for milk-testing, 1933, 151.
- Hovorka, V.** See Hanus, J.
- Howard, C. D.** Behaviour and identification of arecoline and its use as a taenicide, with some comparisons with pelletierine, 1932, 391.
- Howarth, W. J.** Report of the Medical Officer of Health for the City of London for the year 1925, 1926, 412; for 1926, 1927, 477.
- Howarth, W. O.** New method of mounting vegetable powders for microscopical examination, 1929, 494.
- Howe, H. E.** Chemistry in Industry (Review), 1926, 489.
- Howe, J. L., and Mercer, F. N.** Study of ruthenium. IX, Solubility of ruthenium in hypochlorite solutions and an attempt to utilise the reaction for the determination of the metal, 1926, 109.
- Howe, M. A.** See Sullivan, B.
- Howell, S. F.** See Sumner, J. B.
- Howes, D. A., and Nash, A. W.** Knock ratings of aromatic hydrocarbons, 1930, 213.
- Howes, H. S.** Review of Hall's *Textbook of Quantitative Analysis*, 2nd Ed., 1935, 853.
- Hoyland, F. W.** Termination of appointment as Additional Public Analyst for the County Borough of Bournemouth, 1931, 598.
- Hoyle, E.** Vitamin content of honey, 1929, 356.
- See also Bracewell, M. F.
- Hoyle, E., and Zilva, S. S.** The antiscorbutic fraction of lemon juice. VI, 1928, 47.
- Hoyt, L. F., and Clark, P. C.** Determination of water in glycerin, 1931, 270.
- Hoyt, L. F., and Verwiebe, A.** Determination of the concentration of liquid soaps by the immersion refractometer, 1926, 427.
- Hubbard, D. M., and Henne, A. L.** Micro-determination of fluorine in organic substances, 1934, 777.
- Hubbard, R. S.** Determination of inorganic sulphate in serum, 1930, 764.
- Huber, G. A.** Aspergilli and their relation to decay in apples, 1931, 199.
- Hübner, E. O.** See Schuette, H. A.
- Hübner, J., and Venkataraman, K.** Behaviour of different starches towards dyestuffs and iodine. Part I, 1926, 351; Part II, 1927, 37.
- Hudleston, L. J.** Chemical Affinity (Review), 1930, 72.
- Hudson, J. H.** See Sheppard, S. E.
- Huerre, R.** Cade oil, 1926, 417.
- Huff, W. J.** Determination of traces of carbon disulphide in small volumes of gas, 1926, 156.
- Huffman, C. F.** See Robinson, C. S.
- Hughes, E. B.** Liesegang rings. Methods of analysis for the determination of silver, chromate, etc., in gelatin or agar gel, 1935, 309.
- Review of Tinkler and Masters's *Applied Chemistry*, Vol. II, *Foods*, 1926, 543; 2nd Ed., 1932, 480.
- See also Lampitt, L. H.
- Hughes, E. B., and Maunsell, A. E.** The analysis of fruit and fruit products, 1934, 231.
- Erratum, 1934, 338.
- Hughes, E. B., and Wise, W.** Determination of the proportions of coffee and chicory in coffee mixtures, 1934, 633.
- Hughes, E. E., and Acree, S. F.** Determination of furfural with bromine, 1934, 430.
- Volumetric determination of 5-bromo-2-furoic acid with standard bromate solution, 1934, 712.
- Hughes, E. H.** Vitamin A content of barley, 1934, 121.
- Hughes, J. S.** See Titus, R. W.
- Hughes, J. S., Fitch, J. B., Cave, H. W., and Riddell, W. H.** Relation between the vitamin C content of a cow's ration and the vitamin C content of its milk, 1927, 166.
- Hughes, J. S., Payne, L. F., Titus, R. W., and Moore, J. M.** Relation between the amount of ultra-violet light received by hens and the amount of antirachitic vitamin in the eggs produced, 1926, 207.
- Huguounenq, L., and Couture, E.** Action of cholesterol from cod-liver oil on a photographic plate, 1929, 182.
- Photochemical action of various sterols, 1929, 302.
- Huhn, F. L.** Micro-catalytic detection of platinum metals, 1930, 467.
- Hulme, A. C., and Narain, R.** Ferricyanide method for the determination of reducing sugars. Modification of the Hagedorn-Jensen-Hanes technique, 1931, 815.
- Hulton, H. F. E.** See Baker, J. L.
- Hume, E. M., and Smedley-Maclean, I.** Relation of carotene to vitamin A, 1930, 288.
- Humphrey, G. C.** See Steenbock, H.
- Humphrey, G. J.** Preservation of vitamin C in dried orange juice, 1926, 586.
- Humphreys, F. E., and Phillips, H.** Methods for the chemical examination of dyed leathers for the presence of diamines and aminophenols, 1932, 290.
- The examination of leather for the presence of extractable chromium compounds, 1933, 509.
- Hunt, C. H.** The complex nature of vitamin B as found in wheat and maize, 1928, 449.
- Further evidence of the complex nature of vitamin B. I. Evidence that a third factor exists, 1928, 666.

- Hunt, C. H., and Krauss, W. E.** Influence of the ration of the cow upon vitamin B and vitamin C content of milk, 1931, 681.
— Relative antineuritic and antipellagric potency of cow's milk, 1928, 668.
- Hunt, H.** See Heck, J. E.
- Hunter, A.** Creatine and Creatinine (Review), 1929, 195.
— Creatine content of the muscles and some other tissues in fishes, 1929, 299.
— See also Geddes, W. F.
- Hunter, A., and Dauphinee, J. A.** Arginase method for determination of arginine and its use in the analysis of proteins, 1930, 203.
- Hunter, D.** See Bomford, R. R.
- Hunter, G.** New test for ergothioneine, 1928, 292.
- Hunter, G., and Eagles, B. A.** Colorimetric determination of cystine and glutathione, 1927, 292.
— Isolation of a new substance from blood and its bearing on present methods for the determination of uric acid, 1926, 95.
- Hunter, J. E.** See Hogan, A. G.
- Hunter, L., and Hyde, F. F.** A new reagent for the determination of iodine values, 1933, 523.
- Huntress, E. H.** A Brief Introduction to the Use of Beilstein's *Handbuch der Organischen Chemie* (Review), 1931, 842.
- Hunwicke, R. F.** Review of Smyth and Obold's *Industrial Microbiology*, 1931, 423.
— The Essentials of Bacteriological Technique (Review), 1932, 600.
- Hunwicke, R. F., and Grinling, G. N.** Intestinal bacteria isolated from packed dates, 1928, 395.
- Hurd, C. D.** The Pyrolysis of Carbon Compounds (Review), 1929, 689.
- Hurd, L. C., and Chambers, J. S.** Determination of (minute amounts of) copper, 1932, 403.
- Hurd, L. C., and Evans, R. W.** Determination of cadmium by the Evrard method, 1933, 241.
- Hurd, L. C., and Reynolds, F.** Use of cyclohexanol in the colorimetric determination of molybdenum, 1935, 54.
- Hurd, L. C., Colehour, J. K., and Cohen, P. P.** Toxicity tests with rhenium, 1934, 641.
- Hurd-Karrer, A. M.** Selenium injury to wheat plants and its inhibition by sulphur, 1934, 842.
- Hurlbut, C. S., and Beyer, D. S.** Sericite in foundry dust, 1934, 565.
- Husband, A. D., and Godden, W.** Determination of chlorine in milk, 1927, 288.
— The determination of sodium, potassium and chlorine in foodstuffs, 1927, 72.
- Huston, R. C., Lightbody, H. D., and Ball, C. D., Junr.** Biochemical relation of phenols. II, Effect of hydroquinone on the vitamin A content of stored oils, 1928, 665.
- Hutchins, W. D.** Report on tintometer standardisation, 1931, 693.
- Hutchinson, J. C. D.** See Boas-Fixsen, M. A.
- Huybrechts, M., and Degard, C.** Solubility of lead chromate, 1934, 61.
- Hyde, C. G., and Mills, F. E.** Gas Colorimetry (Review), 1933, 124.
- Hyde, F. F.** See Hunter, L.
- Hyde, R. R., and Parsons, E. I.** Alleged differentiation of human sera as to sex, 1927, 167.
- Hyde, R. R., and Parsons, E. I.** Quantitative interdependence of sensitiser and complement in haemolysis, 1927, 167.
- Hyman, M.** Automatic pipette, 1929, 125.
— Burette-reading device, 1928, 306.
— Rapid method of drying laboratory preparations, 1928, 306.
- Hymas, F. C.** Photochemical methods of testing sources of ultra-violet radiation, 1929, 622.
— See also Cocking, T. T.
— See also Middleton, G.

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- Ibbotson, F.** Determination of vanadium in steel, 1928, 591.
- Iki, S.** Moisture and combined water in coal, 1931, 215.
- Ikuta, H.** The investigation of Japanese beeswax. I, 1931, 430; II, Composition of free and combined fatty acids, 1933, 635; III, Composition of hydroxy fatty acid, 1934, 161.
— See also Ueno, S.
- Illing, E. T.** Mohler's test for benzoic acid, 1932, 224.
— See also Wood, D. R.
- Imperial, G. A., and West, A. F.** Salts of linolenic hexabromide from lumbang oil, 1927, 247.
- Inaba, T., and Kitagawa, K.** China jute seed and oil, 1935, 335.
- Inagaki, G.** See Ueno, S.
- Ingeberg, H. C. M.** Analysis of materials containing a mixture of metallic iron and iron oxides, 1926, 107.
- Ingraham, M. A.** See Baumann, C. A.
- Inkster, J.** A case of affiline poisoning, 1926, 641.
- Innes, R. F.** Acetone method for the determination of sulphuric acid and buffer salts in vegetable-tanned leather, 1935, 491.
— Deterioration of vegetable-tanned leather on storage, 1931, 827.
— Determination of strong acid and of buffer salts in vegetable-tanned leather, 1934, 771.
— Determination of sulphuric acid in vegetable leather, 1928, 557.
— Examination of commercial egg-yolk, 1931, 761.
— Review of Machon's *Die Bestimmung und Bedeutung der Wasserstoffionen Konzentration in der Gerberei*, 1931, 844.
— See also Davies, C. W.
- Innes, R. F., and Coste, J. G. M.** Determination of water in vegetable-tanned leather, 1931, 355.
- Inoue, T.** See Shibata, Y.
- Incuye, J. M.** See Flinn, F. B.
- Insley, H., and Glaze, F. W.** Some optical and crystallographical properties of the zinc uranyl acetates, 1934, 722.
- Ionescu, M. V.** Identification and separation of urotropine and formaldehyde in mixtures, 1928, 507.
— Reaction of aromatic aldehydes, 1930, 344.
- Ionescu, M. V., and Bodea, C.** Gravimetric determination of formaldehyde and urotropine, 1931, 200.

- Ionescu, M. V., and Bodea, C.** New reaction for the identification of urotropine in wines, 1929, 548.
- Ionescu, M. V., and Slusanchi, H.** Determination of pyridine in dilute aqueous solution, 1934, 127. Erratum, 1934, 207.
- New method for the differentiation and determination of formaldehyde and acetaldehyde in their mixtures, 1934, 57.
- Ionescu-Matiu, A.** Mercurimetry: a new method for volumetric determinations, 1927, 100.
- Ionescu-Matiu, A., and Herscovici, S.** Indirect volumetric determination of chromium, 1934, 131.
- Ionescu-Matiu, A., and Popesco, A.** Determination of veronal and of mercury tannate, 1932, 531.
- Quantitative analysis of certain medicinal preparations containing mercury, 1929, 609.
- Irish, O. J.** See Roe, J. H.
- Irving, L., and Wells, P. H.** Occurrence of labile phosphorus in various kinds of muscles, 1928, 346.
- Irwin, J. H.** See Wokes, F.
- Isbell, H. S.** See Ellis, N. R.
- Ishikawa, H.** See Kobayashi, K.
- Ishikawa, T.** See Toyama, Y.
- Isnard, —.** Analysis of sodium bicarbonate, 1926, 357.
- Itter, S., Orent, E. R., and McCollum, E. V.** Effective method of extracting vitamin B, 1925, 264.
- Iwai, M.** See Ueno, S.
- Iwamoto, Y.** Para rubber seed oil, 1931, 62.
- Iwamoto, Y., and Kisegawa, M.** Bull frog oil, 1930, 409.
- Iyer, Y. V. S.** Characteristics of sandalwood seeds and seed oil (Mysore), 1935, 319.
- Silicosis and its incidence in the gold mines, 1934, 403.
- J
- Jackisch, J.** See Tillmans, J.
- Jackson, F. W., and Jones, O.** The water-protein ratio of lean meat, and its bearing upon the analysis of sausages, 1932, 562.
- Jackson, H. M.** See Boas-Fixsen, M. A.
- Jackson, M. C. N., and L. N.** Devonshire colic (lead poisoning) due to cider, 1932, 792.
- Jackson, R. F., Silsbee, C. G., and Proffitt, M. J.** Preparation of laevulose. Analysis of Jerusalem artichokes and dahlia tubers, 1926, 304.
- Jacob, K. D.** See Hill, W. L.
- See also Reynolds, D. S.
- Jacobs, H. R. D., and Hoffman, W. S.** New colorimetric method for the determination of potassium, 1932, 60.
- Jacobs, M. B.** See King, C. V.
- Jacobs, W. A., and Bigelow, N. M.** Strophanthins of *Strophanthus Eminii*, 1933, 165.
- Jacobs, W. A., and Gustus, E. L.** The digitalis glucosides. III. Gitoxigenin and isogitoxigenin, 1929, 425.
- Jacobs, W. A., and Hoffman, A.** Strophanthin. XV. Hispidus Strophanthin, 1923, 660.
- Jacobsen, J. E.** Causes of the instability of vitamin C in milk, 1925, 565.
- Jacobucci, A.** See Hickethier, C. F.
- Jaffé, F. W. M.** See Harral, J. C.
- Jäger, A.** Determination of hemicelluloses by oxidation with potassium dichromate, 1932, 537.
- Jahn, C.** See Schoeller, W. R.
- Jahn, E.** See Brintzinger, H.
- Jahr, H.** Conversion of dibenzal-sorbitol into hexa-acetyl sorbitol, 1930, 452.
- Jakowenko, W. A.** Gasometric calcium carbide method for the determination of moisture, 1926, 106.
- James, C.** See Rice, A. C.
- James, L. H.** Magnesium ammonium phosphate in canned salmon, 1933, 222.
- James, L. H.** Volumetric determination of chromium and nickel in the same solution, 1931, 687.
- See also Stuart, L. S.
- Jamet, A.** Use of kaolin in the method for determining non-tannins, 1935, 776.
- See also Meunier, L.
- Jamieson, A. B.** See Cohen, W. E.
- Jamieson, A. R., and Keyworth, C. M.** Identification of the prohibited coal tar colours in foodstuffs, 1928, 418.
- Jamieson, G. S.** Chemical composition of rice oil, 1926, 583.
- Vegetable Fats and Oils (Review), 1932, 349.
- Volumetric Iodate Methods (Review), 1926, 542.
- See also Baughman, W. F.
- Jamieson, G. S., and Baughman, W. F.** Para rubber seed oil, 1931, 61.
- Jamieson, G. S., and Gertler, S. I.** American cherry kernel oil, 1930, 761.
- American safflower oil, 1929, 347.
- Pecan oil, 1929, 750.
- Jamieson, G. S., and McKinney, R. S.** Composition of Californian walnut oil, 1929, 241.
- Palm oil from the Belgian Congo, 1929, 477.
- Sapote (mammy apple) seed and oil, 1931, 603.
- Jamieson, G. S., Baughman, W. F., and Hann, R. M.** The composition and constants of avocado oil, 1928, 498.
- Jamieson, G. S., Baughman, W. F., and McKinney, R. S.** Oil content of nine varieties of soya bean and the characteristics of the extracted oils, 1933, 289.
- Jamieson, G. S., Hann, R. M., and Baughman, W. F.** Chemical composition of Tunisian olive oil, 1927, 290.
- Jansen, B. C. P.** Improvements in the method isolating the anti-beri-beri vitamin, 1929, 613.
- See also Wiardi, P. W.
- Jansen, J. D., and Schut, W.** Quantitative determination of mixtures of two and three oils by means of their separation temperatures with different solvents, 1927, 49.
- Jaramillo, G.** Rapid method for determination of organic nitrogen, 1926, 590.
- Jarussowa, N.** Use of pine-needle concentrate to render canned preserves antiscorbutic, 1935, 566.

- Järvinen, K. K.** Determination of sulphur in iron, 1926, 595.
 — Determination of sulphur in ores, 1927, 730.
 — Separation and determination of chromium, iron and aluminium, 1928, 616.
 — Solubility of cooking vessel metals and determination of the dissolved metals, 1926, 43.
- Jaschik, A., and Kieselbach, J.** Eggs rich in iodine, 1932, 105.
- Jaubert, G. F.** Origin of the colouring matter of beeswax and composition of propolis, 1927, 418.
- Jaulmes, P., and Espezel, P.** Determination of acetaldehyde in wines and spirits, 1935, 703.
- Javillier, M., and Émerique, L.** Method of purifying carotene and the vitaminic activity of the purified product, 1930, 588.
 — Vitaminic activity of carotene, 1930, 341.
- Jay, B. A.** *Polystictus versicolor* (Wood-rotting fungus), 1935, 267.
- Jean, M. L.** Determination of small quantities of iodide. Application to the determination of chromate and silver, 1935, 429.
- Jeantet, P.** See Duclaux, J.
- Jelley, E. E.** A colour reaction between naphthol yellow and hydrosulphites. A test for both, 1930, 34.
 — Colorimetric determination of small amounts of silver, 1932, 589.
 — Use of tungsten arc lamps for photomicrography, 1931, 420.
- Jenkins, S. H.** See Norman, A. G.
- Jensen, C. O., and Haley, D. E.** Nicotine-content of tobacco smoke, 1935, 829.
- Jensen, H., and De Lawder, A.** Studies on crystalline insulin. IX, The adsorption of insulin on charcoal, 1930, 586.
- Jensen, H. R.** Barium sulphate losses in gravimetric determination, 1928, 136.
 — Cacao tannin and its determination, 1928, 365.
 — Chemistry, Flavouring and Manufacture of Chocolate Confectionery and Cocoa (Review), 1931, 768.
 — Rapid determination of sulphites by alkaline liberation or extraction, and titration, 1928, 133.
 — Review of Bywaters' *Cocoa and Chocolate Manufacture*, 1931, 69.
- Jensen, K. A.** New fluorescence indicators, 1933, 722.
 — Separation of manganese as peroxide from other metals, 1932, 125.
- Jentschitsch, J.** See Ernst, P.
- Jephcott, C. M.** Determination of methyl alcohol in the air, 1935, 588.
- Jephcott, H., and Bacharach, A. L.** Rapid and reliable test for vitamin D, 1927, 243.
- Jermstad, M. A.** Fatty constituents of *Cascara sagrada*, 1933, 323.
 — Oil from the seeds of *Ribes rubrum* L. (red currant), 1931, 324.
- Jersey, V.** See Beard, H. H.
- Jesser, H.** Caffeine content of coffee extracts and their physiological action, 1927, 237.
 — Use of vegetable lecithin in noodles, 1934, 702.
 — See also Mezger, O.
- Jette, E. R.** See Kendall, J.
- Jettmar, E. M.** Bank notes and cholera, 1928, 51.
- Jilek, A.** See Hanus, J.
- Jilek, A., and Kota, J.** Separation of beryllium from aluminium by guanidine carbonate, 1932, 406.
 — Separation of beryllium from other elements by guanidine carbonate, 1932, 799.
- Jilek, A., and Lukas, J.** Electro-analytic determination of thallium as thallic oxide, 1929, 684.
 — Separation of tungsten from vanadium, 1929, 490.
 — Titration of thallic salts with permanganate in hydrochloric acid solution, 1929, 255.
- Jirak, L.** See Tanke, A.
- Jirkovsky, R.** Collected references. Electro-graphic methods, 1935, 123.
- Joachim, A. W. R.** Report of the Agricultural Chemist for Ceylon for the year 1927, 1928, 653; for 1928, 1930, 128; for 1929, 1931, 106.
- Jodidi, S. L.** Formaldehyde titration of certain amino-acids, 1926, 263.
 — Identification of some of the products formed by *Bacterium pruni* in milk, 1927, 486.
 — Production of certain enzymes by *Bacterium pruni*, 1927, 722.
- Joglekar, R. B., and Watson, H. E.** Physical properties of pure triglycerides, 1929, 117.
- Johns, H. J.** Fertilisers and Feeding Stuffs Act, 1926 (Review), 1929, 196.
- Johnson, A. H.** See Conn, L. W.
- Johnson, B. K.** See Martin, E. C.
- Johnson, C. H.** Chemical Analysis of Special Steels, 4th Ed. (Review), 1931, 213.
- Johnson, E. B.** Determination of basic dye-stuffs by means of silicotungstic acid, 1933, 778.
 — Determination of basic dyestuffs by means of silicotungstic acid, 1934, 644.
- Johnson, F. W.** Easily Interpolated Trigonometric Tables with Non-interpolating Logs, Cologs and Antilogs (Review), 1934, 443.
 — Non-interpolating Logarithms, Cologarithms and Antilogarithms (Review), 1931, 426.
- Johnson, H., and Staub, P.** Proposed new food dye, 1927, 353.
- Johnson, J. W. H.** A critical review of the methods of analysing waters, sewages and effluents, with suggestions for their improvement, 1927, 128.
 — Method for the combined determination of oxygen absorbed and albuminoid ammonia in sewages and effluents, 1926, 345.
 — Modification of the Kjeldahl method for determining organic nitrogen in sewage effluents, etc., 1926, 405.
 — Removal and determination of nitrites in sewage effluents and waters, 1930, 325.
 — Review of Adeney's *The Principles and Practice of the Dilution Method of Sewage Disposal*, 1928, 678.
 — Review of Whipple's *The Microscopy of Drinking Water*, 1928, 359.
 — The Reichert-Meissl value of the fat in Gorgonzola cheese, 1933, 469.
- Johnson, S. W.** Indophenol-reducing capacity of vitamin C content of extracts of young germinated peas, 1934, 359.

- Johnson, S. W.** Regeneration of the reducing properties of oxidised lemon juice, 1934, 52.
- Johnson, T. B.** See Houston, B.
- Johnston, C. G.** Comparison of pH determinations as obtained by means of hydrogen electrode and colorimetric methods, 1928, 609.
- Johnston, E. S.** Importance of boron in plant growth, 1929, 48.
- Johnston, W. S.** See McKee, R. H.
- Jones, H. S., Manjunath, B. L., and Rao, S. V.** Saponification values of highly coloured oils, 1931, 332.
- Joly, M.** See Hérissé, H.
- Jona, R. B.** See Antoniani, C.
- Jones, A. E.** The gelatin precipitation test for tannins, 1927, 275.
- The use of Mitchell's ferrous tartrate reagent in studying the precipitation of alkaloids by tannin, 1928, 429.
- Jones, A. O.** Review of *Annual Reports of the Progress of Applied Chemistry*, 1934. Vol. XIX, 1935, 346.
- Review of Tinkler and Masters' *Applied Chemistry*. Vol. I, 3rd Ed., 1935, 501.
- See also Evans, J.
- Jones, B.** An investigation into the electrolytic separation of lead as peroxide in non-ferrous alloys. I, A new method for the determination of small amounts of lead in copper and copper-rich alloys, 1933, 11.
- Review of Johnson's *Chemical Analysis of Special Steels*, 4th Ed., 1931, 213.
- Review of Thew's *Metallurgy of White Metal Scrap and Residues*, 1930, 776.
- The determination of phosphorus in "basic" iron, 1933, 90.
- The determination of small amounts of nickel in steel, 1929, 582.
- The precipitation of small amounts of lead as chromate, and their accurate colorimetric determination, 1930, 318.
- See also Clarke, S. G.
- See also Singleton, W.
- Jones, D. B.** Factors for converting percentages of nitrogen in foods and feeds into percentages of proteins, 1931, 813.
- Jones, D. B., and Horn, M. J.** Properties of arachin and conarachin and the proportionate occurrence of these proteins in the arachis nut, 1930, 395.
- Jones, D. B., Murphy, J. C., and Nelson, E. M.** Vitamins in oysters, 1928, 295.
- Jones, E. B.** See Barrett, J. F.
- Jones, E. C.** See Hilditch, T. P.
- Jones, E. E.** See Hilditch, T. P.
- Jones, E. G.** Obituary of G. W. Gray, 1929, 265.
- The extractives of rum, 1933, 89.
- Jones, E. V.** Appointed Public Analyst for the Boroughs of Newcastle-under-Lyme and Stoke-on-Trent, 1934, 108.
- Freezing-point of milk—Hortvet method, 1934, 29.
- Obituary of A. E. Johnson, 1934, 2.
- Jones, G. W., and Yant, W. P.** Detection of petroleum vapour with the Burrell methane indicator, 1926, 104.
- Jones, H. O.** Determination of sulphur dioxide in foods by distillation in a vacuum, 1928, 138.
- Determination of sulphur dioxide in sausages, 1928, 138.
- Jones, J. M., and Evers, N.** Malt extracts and oil emulsions. II, Vitamin A content of commercial malt extract and cod-liver oil emulsion. III, Testing of malt extract and cod-liver oil emulsions for vitamin A, 1928, 506.
- Jones, J. M., and McLachlan, T.** Malt extracts and oil emulsions. I, Composition of commercial malt extract and cod-liver oil emulsion, 1928, 506.
- The determination of moisture by the volatile solvent method, 1927, 383.
- Jones, O.** Nitrite in cured meats, 1933, 140.
- See also Jackson, F. W.
- Jones, P. H.** "Marble" arrowroot, 1934, 493.
- Pearl barley infected with smut, 1933, 754.
- Jones, P. T.** See MacInnes, D. A.
- Jones, R. A.** The colorimetric determination of chlorates by the use of aniline hydrochloride, 1931, 807.
- Jones, R. L.** See Nelson, V. E.
- Jones, R. T. P.** See Callan, T.
- Jones, T. W.** Hermes or the Future of Chemistry, 1929, 130.
- Jones, W.** See Calvery, H. O.
- Jones, W. R.** Silicosis, 1934, 124, 191.
- Jordan, L.** See Vacher, H. C.
- Jordan, L. A.** Tung oil. Chemical studies and specification, 1934, 298.
- Tung oil from *Aleurites montana* and specification tests, 1934, 195.
- Jørgensen, G.** Acridness and toxicity of cruciferous seeds and oil cakes, 1927, 44.
- Determination of phosphoric acid as magnesium ammonium phosphate, 1926, 61.
- The rising of fat in milk, 1931, 380.
- Jørgensen, H.** Wasserstoff-Ionenkonzentration (pH) (Review), 1935, 854.
- Jorpes, E.** Colorimetric determination of histidine, 1933, 102.
- Jorpes, E., and Thorén, S.** Use of the Sakaguchi reaction for the quantitative determination of arginine, 1933, 103.
- Joseph, G. H.** Reaction between pectin and cow's milk, 1930, 334.
- Joslyn, M. A., and Marsh, G. L.** Iodine-reducing value of orange juice, 1934, 759.
- Keeping quality of frozen orange juice, 1934, 350.
- Joslyn, M. A., Marsh, G. L., and Morgan, A. F.** Relation of reducing value and extent of browning to the vitamin C content of orange juice exposed to air, 1934, 498.
- Jouatte, D.** See André, E.
- Jouot, —.** See Travers, A., and Jouot, —.
- Jovellanos, C. M.** Determination of available alkalinity in commercial lime, 1930, 220.
- Jovellanos, C. M., and West, A. P.** Salts of alpha-linolic tetrabromide from candlenut (lumbang) oil, 1928, 111.
- Joyet-Lavergne, P.** Research on vitamin A in animal and plant cells, 1935, 195.
- Józsa, S., and Gore, H. C.** Determination of the liquefying power of malt diastase, 1930, 214.
- Juckenack, A.** See Bömer, A.

- Juckenack, A.**, and **Brüning, A.** "Gulf sickness" and the arsenic theory, 1926, 531.
- Judd, D. B.** Reduction of Data on Mixture of Colour Stimuli, 1930, 604.
- Judd, D. B.**, and **Walker, G. K.** Colour glass standardisation, 1928, 180.
- Junge, C.** New apparatus for the determination of corrected melting points, 1930, 225.
- Jungkunz, R.** See Pritzker, J.
- Jupe, M. H.** See Rodgers, T. S.
- Jurist, A. E.**, and **Christiansen, W. G.** Studies on the analysis and chemistry of nearsphenamine, 1928, 166.
- K**
- Kabat, E. A.** See Lehrmann, L.
- Kagawa, I.** See Atsuki, K.
- Kahane, E.** Colour reaction of manganese with formaldoxime, 1935, 573.
— Determination of arsenic in medicinal organic compounds, 1934, 356.
— Determination of titanium in pomades, 1932, 728.
— Study of potassium perchlorate, 1933, 781.
— See also Lematte, L.
- Kahlenberg, L.** See Steinle, J. V.
- Kahlenberg, L.**, and **Barwasser, N.** Time of absorption and excretion of boric acid in man, 1928, 662.
- Kahlenberg, O. J.** See Supplee, G. C.
- Kahn, B. S.** See Roe, J. H.
- Kahn, B. S.**, and **Leiboff, S. L.** Colorimetric determination of inorganic sulphate in small amounts of urine, 1929, 115.
- Kahn, G.**, and **Stokes, J., Junr.** Comparison of the electrometric and colorimetric methods for determination of the pH value of gastric contents, 1926, 528.
- Kalherer, O. E.** Spectroscopical detection of fruit wine in wine, 1927, 482.
— See also Widmer, A.
- Kalman, C.** See Thomas, P.
- Kaltman, H.** See Naegeli, C.
- Kaltschewa, D.** Soya bean flour and pea flour, 1933, 162.
- Kamerman, P.**, and **Clintworth, H.** Influence of Fertilisers on the Nitrogen and Carbon Cycles in Soils, 1935, 130.
- Kameyama, N.**, and **Makishima, S.** Determination of bismuth in copper, 1933, 637.
- Kameyama, N.**, and **Oka, S.** Synthesis of Japanese acid clay, 1929, 65.
— Synthetic Japanese acid clay, 1929, 562.
— The benzidine colour reaction of Japanese acid clay, 1929, 562.
- Kamfer, K.** Identification in small samples of leather of the different minerals used in tanning, 1931, 335.
- Kamm, E. D.** Note on the unsaponifiable matter from the stomach oil of *Scymnorhinus lichia*, 1928, 294.
— See also Heilbron, I. M.
- Kamm, O.** Organic Syntheses. Vol. IV (Review), 1926, 55.
— Qualitative Organic Analysis: An Elementary Course in the Identification of Organic Compounds, 2nd Ed. (Review), 1933, 184.
- Kandilarow, G. G.** Elimination of phosphoric acid by lead acetate in qualitative analysis, 1928, 178.
- Kazeko, S.**, and **Nemoto, C.** Use of solid cadmium amalgam in volumetric analysis, 1932, 538.
— Volumetric analysis involving the use of liquid amalgams, 1932, 797.
- Kanewskaja, S. J.**, and **Fedorowa, A. M.** Determination of coumarin and melilotic acid in *Melilotus officinalis*, 1933, 624.
- Kanitz, H. R.** See Grossfeld, J.
- Kankanian, A. G.** See Darbinian, M. B.
- Kanning, E. W.**, and **Kratli, F. H.** Antimony indicator electrode in the potentiometric titration of iron and aluminium, 1934, 131.
- Kaplan, A. M.** See Wikoff, H. L.
- Kapp, —.** Determination of hydrogen sulphide in industrial waters, 1932, 793.
- Kappeller, G.** Arsenic in writing materials, 1930, 771.
- Kappeller, G.**, and **Reidemeister, W.** Detection of dried plums in plum pulp mixtures, 1933, 163.
- Kapulitzas, H. J.** See Feigl, F.
- Kar, H. A.** Determination of copper in copper-molybdenum steel, 1935, 495.
- Karásconyi, L.** Action of aldehydes on wheaten bread, 1930, 135.
- Karlik, B.** See Knaggs, I. E.
- Karns, G. M.** Detection of cadmium in presence of copper, 1926, 646.
- Karns, G. M.**, and **Donaldson, H. C.** Preparation of iodine-free bromine, 1932, 273.
- Karpenko, V.** See Conn, L. W.
- Karr, W. G.** See Oser, B. L.
- Karrer, P.** See Salomon, H.
— See also von Euler, H.
- Karrer, P.**, and **Schlienz, W.** Plant colouring matters. LV, Occurrence of α - and β -carotene in various natural products, 1934, 293.
- Karrer, P.**, and **Schöpp, K.** Separation of vitamin A, carotene and xanthophyllen, 1932, 582.
- Karrer, P.**, **Morf, R.**, and **Schöpp, K.** Vitamin A from fish livers, 1931, 824.
— Vitamin A from fish oils. II, 1932, 185.
- Karrer, P.**, **von Euler, H.**, and **Schöpp, K.** Lovibond values of the liver-oils of various animals, and growth promotion of different vitamin preparations, 1932, 327.
- Karsajewskaja, M. P.** See Tschernichow, J. A.
- Kasarinowa, W. A.** See Rosanow, S. N.
- Kassler, J.** Micro-analysis of steel, 1930, 772.
- Katti, M. C. T.**, and **Mánjunáth, B. L.** Oil from the seeds of *Butea frondosa* Roxb., 1930, 283.
- Kattwinkel, R.** Automatic apparatus for the determination of water, 1927, 173.
- Katz, J. R.** Die Röntgenspektrographie als Untersuchungsmethode (Review), 1935, 203.
- Katzenstein, M.** See Pinkus, A.
- Kauffman, M.** See Gerritza, S. C. L.
- Kauffmann-Cosla, O.** Determination of carbon in dilute organic liquids, 1927, 45.
- Kaufmann, H. P.** Absorption spectra and fluorescence of fats, 1929, 309.
— Determination of the composition of tung (Chinese wood) oil by means of thiocyanogen absorption, 1926, 473.

- Kaufmann, H. P.** The thiocyanogen value: a new constant for oils and fats, 1926, 157.
— The thiocyanogen value of fats, 1928, 643.
— Thiocyanogen absorption of oils and fats, 1926, 264.
- Kaufmann, H. P.,** and **Hansen-Schmidt, E.** Theory of the hardening of oils by hydrogenation, 1927, 246.
- Kaufmann, H. P.,** and **Keller, M.** Aflalysis by means of the thiocyanogen value of fats containing linolenic acid. Analysis of linseed oil, 1929, 304.
- Kaufmann, H. P.,** and **Lutenberg, C.** Partial halogen addition to unsaturated fatty acids. β -Elaeostearic acid glyceride and wood oil, 1929, 304.
- Kaura, B. D.** See Bonner, W. D.
- Kawakoi, S.** See Kohn-Abrest, E.
- Kawai, K.** See Somiva, T.
- Kawamura, J.** Chemical constituents of the fruit of *Ginkgo biloba*, 1928, 659.
- Kay, H. D.** Plasma phosphatase. I, Method of determination. Some properties of the enzyme, 1931, 123.
- Kay, H. D.,** and **Marshall, P. G.** Phosphorus compounds in milk. IV, Presence of adenine nucleotide in milk, 1928, 391.
- Kay, R. H.** The examination and commercial analysis of cotton cloths, 1931, 647.
- Kay, R. R.,** and **McCandlish, H. C.** Factors affecting the yield and quality of milk. I, The age of the cow, 1929, 353.
- Kay, S. A.** See Cumming, A. C.
- Kay, W. W.,** and **Sheehan, H. L.** Preparation, storage and use of standard carbonate-free sodium hydroxide solutions, 1935, 119.
- Kaye, G. W. C.,** and **Laby, T. H.** Physical and Chemical Constants (Review), 1927, 53.
- Keane, C. A.** See Lunge, G.
- Keane, C. A.,** and **Thorne, P. C. L.** Lunge and Keane's Technical Methods of Chemical Analysis. Vol. II, 2nd Ed. (Review), 1929, 66; Vol. III, 1931, 769.
- Keenan, G. L.** See Clark, E. P.
— See also Mottern, H. H.
— See also Wales, H.
— See also Wilson, J. B.
- Keenan, G. L.,** and **Wildman, J. D.** Occurrence of crystalline globulin in banana seeds, 1930, 637.
- Keesom, W. H.** Solidification of helium, 1926, 429.
— The states of aggregation of condensed helium, 1928, 676.
- Kogel, McNally** and **Pope.** Methyl chloride poisoning, 1929, 676.
- Kehoe, E. A.,** and **Thamann, F.** Behaviour of lead in the animal organism. II, Lead tetraethyl, 1931, 331.
- Keightley, W. M.** See Hall, G. F.
- Keil, H. L.,** and **Nelson, V. E.** Role of copper in carbohydrate metabolism, 1934, 764.
— Role of copper in haemoglobin regeneration and in reproduction, 1931, 755.
- Keilholz, W.** See Plücker, W.
- Keilling, J.** Pink stains in cheeses, 1935, 255.
- Keith, M. H.** See Mitchell, H. H.
- Keller, M.** See Kaufmann, H. P.
- Keller, O.** Marzipan and its substitutes, 1927, 716.
- Kelley, E. G.,** and **Miller, E. G.** Reactions of dyes with cell substances. I, Staining of isolated nuclear substances. II, Differential staining of nucleoprotein and mucin by thionine and similar dyes, 1935, 627.
- Kellogg, A. M.,** and **H. B.** Furoic acid as an acidimetric standard, 1934, 712.
- Kelly, J. W.** See Black, O. F.
- Kemmerer, A. R.,** and **Todd, W. R.** Effect of diet on manganese content of milk, 1932, 48.
- Kemmerer, G.,** and **Schrenk, H. H.** Mercuric bromide paper for use in the Gutzeit test for arsenic, 1926, 478.
- Kemmerer, K. S.,** and **Boutwell, P. W.** Sulphur content of foods, 1932, 783.
- Kemp, A. R.** Determination of hydrocarbon in raw rubber, gutta-percha and allied substances, 1927, 362.
- Kemp, A. R.,** **Bishop, W. S.,** and **Lackner, T. U.** Direct determination of rubber in soft vulcanised rubber, 1928, 399.
- Kemp, C. N.** Examination of coal and coke by X-rays, 1930, 223.
- Kempf, R.** Determination of the degree of "chalking" of paintwork, 1930, 295.
- Kendall, E. C.,** **McKenzie, B. F.,** and **Mason, H. L.** Study of glutathione. I, Preparation in crystalline form and identification, 1930, 54.
- Kendall, F. E.** See Goettsch, E.
- Kendall, J.,** and **West, W.** Attempted separation of hafnium and zirconium by ionic migration, 1926, 647.
- Kendall, J.,** **Jette, E. R.,** and **West, W.** Separation of radium and mesothorium I from barium by ionic migration, 1927, 106.
- Kennard, D. C.** See Bethke, R. M.
- Kennaway, E. L.** Further experiments on cancer-producing substances, 1930, 460.
- Kennedy, C.,** and **Palmer, L. S.** Heat and ultra-violet irradiation as means of differentiating vitamins B and G in yeast, 1929, 674.
- Kennedy, H. T.** Determination of sulphur in volatile fuels, 1928, 300.
- Kennedy, M. H.** See Wimmer, C. P.
- Kennedy, R. P.** Quantitative determination of iron in tissues, 1927, 603.
- Kennerley, H. W.,** and **Peters, R. A.** The formaldehyde-azo-test for vitamin B, 1934, 565.
- Kenneth, J. H.** Odours and the sense of smell, 1926, 372.
- Kenny, W. R.** See McCrumb, F. R.
- Kent-Jones, D. W.** Modern Cereal Chemistry (Review), 1928, 310.
— Review of *Cereal Laboratory Methods*, 3rd Ed., 1935, 727.
— Review of Snyder's *Bread*, 1930, 725.
— The Practice and Science of Breadmaking (Review), 1935, 203.
— See also Amos, A. J.
— See also Herd, C. W.
- Kent-Jones, D. W.,** and **Amos, A. J.** Preliminary studies in the bacteriology of wheat and flour, 1930, 248. Erratum, 1930, 358.
- Kent-Jones, D. W.,** and **Herd, C. W.** A numerical expression for the colour of flour, 1927, 443.
— Detection of small quantities of chlorine in flour, 1930, 394.

- Kent-Jones, D. W.**, and **Herd, C. W.** Some observations on the washing of gluten from flour, **1927**, 439.
— The determination of lead in acid calcium phosphate, **1933**, 152.
- Kenyon, J.** Review of Meyer's *Nachweis und Bestimmung Organischer Verbindungen*, **1933**, 572.
— Review of Richter's *Organic Chemistry*. Vol. I, *Chemistry of the Aliphatic Series*, **1934**, 653.
— Review of Schmidt's *Lehrbuch der Organischen Chemie*, **1930**, 300.
— Review of Stewart's *Recent Advances in Organic Chemistry*. Vols. I and II, 6th Ed., **1932**, 67.
- Kerchow, F.** New melting point apparatus, **1929**, 309.
- Keresztesy, J.** See Eddy, W. H.
- Kerly, M.** Solubility of glycogen, **1930**, 400.
- Kerr, D. J. A.** Carbon monoxide poisoning in forensic cases, **1927**, 296.
- Kerr, R. D., Marsh, C. T. N., Schroeder, W. F., and Boyer, E. A.** Use of sodium nitrite in the curing of meat, **1927**, 37.
- Kerr, R. H.** Boa constrictor fat, **1927**, 610.
- Kertes, Z. I.** Glucoreductone for the standardisation of 2, 6-dichlorophenolindophenol solutions used for the determination of ascorbic acid (vitamin C), **1934**, 427.
— Method for determination of enzyme yield in fungus cultures, **1931**, 193.
- Kethel, R. J. B.** Magnesite: its application in assaying, **1930**, 658.
- Key, K. M.** See Dyer, F. J.
- Key, K. M., and Elphick, G. K.** Quantitative method for determination of vitamin C, **1931**, 681.
- Keyworth, C. M.** See Forster, R. B.
— See also Jamieson, A. R.
- Khalil, M.** Toxicity of carbon tetrachloride, **1926**, 260.
- Khouri, J.** Clinical detection of β -hydroxybutyric acid in urine and other fluids of the organism, **1933**, 292.
- Khouvine, Y., and Nitzberg, G.** Identification and biological oxidation of α -glucoheptulitol, **1933**, 172.
- Kickton, A., and Mayer, F.** Behaviour of gelatin towards colouring matters in wines, **1926**, 353.
- Kidd and Langworthy.** "Ginger paralysis" (tri-ortho-cresyl phosphate poisoning), **1933**, 710.
- Kidd, F.** The refrigerated gas-storage of apples, **1935**, 757.
- Kidd, F., and West, C.** Functional diseases of apples in cold storage, **1926**, 85.
- Kiech, V. C., Luck, J. M., and Smith, A. E.** Studies on arginine. I, Rate of catabolism in rats, including method for determination of arginine in biological material, **1931**, 327.
- Kiefer, K.** Rapid determination of tin in ferrotungsten and wolframite, **1932**, 538.
- Kielhöfer, E.** Lead content of grape must and wine treated with insecticides containing lead, **1930**, 151.
- Kieselbach, J.** See Jaschik, A.
- Kiesgen, J.** See Tillmans, J.
- Kifer, H. B., and Munse, H. E.** Vitamin content of honey and honeycomb, **1930**, 55.
- Kijatschkina, B.** See Stuber, E.
- Kik, M. C., and McCollum, E. V.** Nutritive value of haddock and herring (*Clupea harengus*), **1928**, 606.
- Kilborn, R. B.** See Pierce, H. B.
- Kimura, W.** Composition of soya bean oil, **1930**, 703.
— Constituents of the unsaturated fatty acids of chrysalis oil, **1928**, 352.
— Reduction of the bromine derivatives of fatty acids, **1932**, 59.
— Use of thiocyanogen value. IV, Analysis of oils containing linolenic acid. I, Composition of chrysalis oil, **1930**, 645.
- King, A., and Fromherz, H.** German-English Chemical Terminology, 584; (Review), **1934**, 782.
- King, A. T.** See Bliss, H.
— See also Hirst, H. R.
- King, C. G.** See Averill, H. P.
— See also Bessey, O. A.
— See also Etzel, G., and King, C. G.
— See also Grettie, D. P.
— See also McKinnis, R. B.
— See also Svirbely, J. S.
— See also Waugh, W. A.
— See also Yavorsky, M.
- King, C. G., and Etzel, G.** The industrial contamination of food with copper, **1927**, 723.
- King, C. V., and Jacobs, M. B.** Sensitive test for iodines, **1931**, 554.
- King, E. J.** A new form of the filter stick; its use in gravimetric analysis, **1933**, 325.
— Colorimetric determination of phosphorus, **1932**, 532.
— Determination of silica in tissues, **1929**, 52.
— See also Morgan, J. C.
- King, E. J., and Lucas, C. C.** Use of picric acid as an artificial standard in the colorimetric determination of silica, **1928**, 617.
- King, G.** See Lewis, E. J.
- King, H.** An unrecorded constituent of commercial ethyl ether, **1928**, 105.
- King, H., and Rutterford, G. V.** Titrimetric determination of primary arsenic acids, **1930**, 717.
- King, J.** The determination of tartaric acid in foodstuffs, **1933**, 133.
— The identification and determination of dicodide, eucodal and dilaudide, **1931**, 498.
— The identification of apiol, **1929**, 567.
- King, J. B.** See Watson, C.
- King, J. G.** Review of Barr's *A Monograph of Viscometry*, **1931**, 496.
— Review of Bone, Newitt and Townend's *Gaseous Combustion at High Pressures*, **1930**, 302.
— Review of Gurwitsch and Moore's *Scientific Principles of Petroleum Technology*, **1932**, 676.
— Review of Lunge's *Technical Gas Analysis*, **1934**, 512.
— See also Manning, A. B.
- King, J. G., and Crossley, H. E.** Methods for the quantitative analysis of coal ash, **1933**, 614.
- King, J. G., and Edgcombe, L. J.** Assay of coal for carbonisation purposes (Part III). Fuel Research Paper, No. 24, **1930**, 279.
- King, W. B.** See Gilman, H.

- Kingman, W. A.** Determination of the water content of liquid glue, 1926, 212.
- Kingsbury, F. B.** Effect of glucose on the condensation of formaldehyde. I. Determination of urinary sugar by this principle, 1928, 45.
- Kingzett, C. T.** *Chemical Encyclopaedia*, 4th Ed. (Review), 1928, 464; 5th Ed., 1932, 809.
— The absorption of oxygen by phosphorus, 1934, 816.
- Kinkead, R. W.** Measurement of the viscosity of solutions of cellulose in cuprammonium hydroxide solution: A capillary tube viscometer, 1931, 692.
— Test for mercerisation, 1926, 366.
- Kinnerley, H. W.** See Peters, R. A.
- Kinnersley, H. W., O'Brien, J. R., and Peters, R. A.** Crystalline preparations of vitamin B₁ from baker's yeast, 1933, 488.
- Kino, K.** Drying properties of the polymerised products of sardine oil and of methyl esters derived from sardine oil, 1934, 761.
- Kipping, F. S.** See Cusa, N. W.
- Kipping, F. S., and E. B. Perkin** and Kipping's *Organic Chemistry*, New Ed. (Review), 1933, 573.
- Kirchof, F.** Determination of copper in materials containing rubber, 1932, 473.
- Kirk, P. L.** Quantitative drop analysis. I, Apparatus and technique, 1934, 63. III, The Kjeldahl nitrogen determination and determination of non-protein nitrogen of blood, 1935, 642.
— See also Bullock, B.
— See also Mitler, R. P.
- Kirk, P. L., and Craig, R.** Filter for micro-gravimetric analyses, 1932, 127.
- Kirk, P. L., and McCalla, A. G.** Micro-combustion of carbon and hydrogen, 1933, 55.
- Kirkby, W.** Review of Campbell Thompson's *On the Chemistry of the Ancient Assyrians*, 1926, 112.
— Review of Evers' *The Chemistry of Drugs*, 1926, 272.
— Review of Findlay's *The Spirit of Chemistry*, 1931, 140.
— Review of Wallis' *Practical Pharmacognosy*, 1926, 56.
- Kirschman, H. D., and Ramsey, J. B.** Potentiometric determination of gallium, 1928, 455. Erratum, 1928, 511.
- Kischinewskaja, L. G.** See Bogatsky, W. D.
- Kisegawa, M.** See Iwamoto, Y.
- Kisseleva, V. E.** See Panfilov, A. V.
- Kissling, R.** Denicotinsation of tobacco smoke during smoking, 1932, 181.
- Kistiakowski, G. B.** Photochemical Processes (Review), 1929, 127.
- Kitagawa, K.** See Inaba, T.
- Kitajima, G.** See Tomii, R.
- Kitchin, K., and D. H.** Review of the Effects of Alcohol on Man (Review), 1932, 280.
- Kitching, A. F.** Review of Bentley and Driver's *Analytical Tables*, 1928, 309.
— Review of Bradley's *A Laboratory Manual of Qualitative Analysis*, 4th Ed., 1928, 308.
— Review of Clarke's *Organic Synthesis*. Vol. X, 1930, 721.
— Review of Gilman's *Organic Synthesis*. Vol. VI, 1926, 653.
- Kitching, A. F.** Review of Kamm's *Organic Synthesis*. Vol. IV, 1926, 55.
— Review of Marvel's *Organic Synthesis*. Vol. V, 1926, 380.
— Review of Staudinger's *Introduction to Qualitative Organic Analysis*, 1926, 488.
— Review of Whitmore's *Organic Synthesis*. Vol. VII, 1928, 514.
- Kitto, W. H.** Rapid determination of nitrogen by a Kjeldahl-Nessler process, 1934, 733.
- Klassen, J. A.** Cyanic and thiocyanic acid in the living organism, 1933, 48.
- Klaassens, K. H.** See Backer, H. J.
- Klanfer, K.** See Feigl, F.
- Klar, M.** Technology of Wood Distillation (Review), 1926, 59.
- Klarmann, E.** Die Rolle der Zyklischen Amino-saureanhydride in der Neueren Strukturchemie der Proteine (Review), 1930, 71.
- Klein, G.** *Handbuch der Pflanzenanalyse*. Vol. I (Review), 1931, 621; Vol. II, 1932, 347; Vol. III, 1933, 185; Vol. IV, 1933, 648.
- Klein, R., and Wilkinson, J. F.** A new method of preparing a picrolonate from a picrate as a means of identification, 1932, 27.
- Klein, R. H.** Rapid method for the determination of halogen in insoluble inorganic halides, 1930, 192.
- Kleiner, I. S.** See Tauber, H.
- Kleiner, I. S., and Tauber, H.** Practical method for the simultaneous determination of lactose and glucose in urine, 1933, 413.
- Kleinmann, H.** See Yoe, J. H.
- Klemme, D.** See Poe, C. F.
- Kleucker, E.** See Krauss, F.
- Klinc, L.** Determination of butyric acid in wine and vinegar, 1935, 623.
- Kline, G. M., and Acree, S. F.** Determination of aldose sugars by titration with standard iodine and alkali solutions, 1931, 48.
- Kline, G. M., Meacham, M. R., and Acree, S. F.** Estimation of liquid contact potentials with potassium chloride and ammonium chloride, 1932, 340.
- Klockow, R. F.** See Lewis, J. R.
- Klostermann, M., and Fachmann, W.** Detection of fruit wine in grape wine by the sorbitol method, 1931, 405.
- Klostermann, M., and Quast, H.** Pine-needle extract, 1927, 248.
- Klotz, B. H.** See Block, R. J.
- Klotz, L.** Comparative study of methyl and ethyl protocatechuic aldehyde, 1929, 752.
- Klug, P.** See Cornec, E.
- Kluge, H.** Distinction between egg-yolk and vegetable lecithin in food-pastes, 1935, 254.
— Milk diastase, 1933, 168.
— Toxicological detection of ergot, 1935, 266.
— See also Koenig, W.
- Knaggs, I. E., Karlik, B., and Elam, C. F.** Tables of Cubic Crystal Structure of Elements and Compounds, 1933, 314.
- Knapp, A. W.** See Moss, J. E.
- Knapp, A. W., and Coward, K. H.** Vitamin D in cacao shell, 1934, 474.
- Knapp, A. W., and Phillips, R. J.** The determination of sulphur dioxide in fatty substances, 1928, 149.

- Knapp, A. W., Moss, J. E., and Melley, A.** Cacao butter substitutes and their detection, 1927, 452.
- Knapper, J. S., Craig, K. A., and Chandlee, G. C.** Determination of tin by means of phenylarsonic acid, 1934, 60.
- Knetemann, A.** The Duclaux method for the determination of volatile fatty acids and its application to the determination of butterfat in margarine, 1928, 657.
- Knight, H. F.** The "Knight test" for feathers, 1928, 278.
- Knight, H. G.** See Byers, H. G.
- Kniphorst, L. C. E.** See Kruisheer, C. I.
- Knop, J.** Colour indicators for permanganate solutions. Determination of ferrocyanide, 1929, 437.
- Knop, J., and Kubelkova O.** Colour indicators for permanganate titrations. Determination of iron, 1929, 437.
- Knowles, D. C.** See Lehner, V.
- Knowles, H. B.** Use of α -benzoinoxime in the determination of molybdenum, 1932, 799.
— Use of 8-hydroxyquinoline in the determination of aluminium, beryllium and magnesium, 1935, 777.
— See also Lundell, G. E. F.
- Knudson, A.** See Marshall, A. L.
- Knudson, A., and Moore, C. N.** Comparison of the antirachitic potency of ergosterol irradiated by ultra-violet light and by exposure to cathode rays, 1929, 183.
- Knutsen, M. H.** See Bechdel, S. I.
- Kny-Jones, F. G., and Ward, A. M.** Preparation and properties of xanthidrol as a reagent for urea, 1929, 574.
- Kobayashi, K.** Acidity of Japanese acid clay (Japanese fuller's earth), 1927, 559.
- Kobayashi, K., and Ishikawa, H.** Detection of Japanese acid clay by the colour reaction of benzidine solution, 1935, 720.
- Kobayashi, K., and Yamamoto, K.** Colour reaction of the Japanese acid clays with liver oils and vitamin A on the market, 1927, 553.
— Genesis of Japanese acid clay, 1929, 562.
- Kobayashi, K., Yamamoto, K., and Abe, J.** Carotene in palm oil, 1934, 639.
— Colour reaction of Japanese acid clay upon carotene in palm oil, 1932, 264.
— Colour reaction of Japanese acid clay with carotene, 1931, 198.
— Colour reaction of Japanese acid clay with carotene in palm oil, 1934, 639.
- Kobe, K. A., and Brookbank, E. B.** Platinised silica-gel as a catalyst in gas analysis. II. Oxidation of the methane hydrocarbons, 1934, 198.
- Koch, E. M.** Vitamin C content of orange crush beverage, 1932, 397.
- Koch, H. J.** See Pagel, H. A.
- Koch, R.** Viability of *Coli* bacteria in beer, 1932, 535.
- Koczkaś, J.** See Stitz, J.
- Koelsch, C. F.** Identification of phenols, 1931, 201.
- Koenig, E. W.** Determination of alkalis in felspar, 1935, 843.
- Koenig, W., and Kluge, H.** Detection of luminal in urine, 1930, 524.
- Kofler, A., and Geyr, J.** Detection of coumarin, 1935, 58.
- Kofler, L., and Dermbach, W.** Vacuum sublimation under the microscope, 1932, 336.
- Kofler, L., and Hilbek, H.** Capillary analysis. Identification of small amounts of formaldehyde with dimethyl-hydroresorcinol, 1930, 528.
— New micro melting-point apparatus, 1932, 130.
- Kögel, G.** Die Unsichtbaren Strahlen im Dienste der Kriminalistik (Review), 1930, 422.
- Kohler, H.** Water vapour in the atmosphere, 1927, 368.
- Kohman, E. F.** See Eddy, W. H.
- Kohman, E. F., and Sanborn, N. H.** Acidity and corrosion in canned fruits, 1930, 582.
— Isolation of quinic acid from fruits, 1931, 323.
- Kohman, E. F., Eddy, W. H., and Halliday, N.** Vitamins in tinned strawberries, 1928, 295.
- Kohman, E. F., Eddy, W. H., Carlsson, V., and Halliday, N.** Vitamins in canned peaches, 1926, 260.
- Kohman, E. F., Sanborn, N. H., Eddy, W. H., and Gurin, C. Z.** Vitamins in canned foods. Calcium and vitamin D in foods, 1934, 710.
- Kohn, E.** See Fuchs, K.
- Kohn-Abrest, E.** Detection of chloroform, carbon tetrachloride, etc., in toxicological cases. Application of the method to their detection in air, 1934, 641.
— Determination of traces of nitric oxide in air, 1927, 248.
- Kohn-Abrest, E., and Kawakibi, S.** Nitrates in animal and vegetable tissues, 1926, 585.
- Kohn-Abrest, E., Villard, H., and Capus, L.** Presence of thiocyanates in the human organism. Post-mortem transformation of veronal, dial and gardenal into hydrocyanogen compounds, 1930, 291.
- Kolb, H.** See Wagner, H.
- Kolbach, P.** Colorimetric estimation of the pH value of wort or beer, 1932, 465.
— See also Windisch, W.
- Kollath, A.** See Krauss, F.
- Kolmer, E.** See Pavelka, F.
- Kolokolow, N.** See Polijakow, A.
- Kolthoff, I. M.** Argentometric determination of iodide in presence of chloride, 1927, 305.
— Delicate tests for copper, 1930, 527.
— Detection and colorimetric determination of aluminium, 1928, 238.
— Detection and determination of metals by means of *o*-hydroxyquinoline (oxine), 1928, 175.
— Detection of traces of beryllium and colorimetric determination of this element, 1928, 238.
— Determination of formaldehyde in formalin tablets, 1926, 254.
— Die Massanalyse. Part I (Review), 1927, 663; 2nd Ed., 1930, 660. Part 2, 1931, 842.
— Indicators (Review), 1927, 254.
— Iodimetric titration of acids, 1926, 477.

- Kolthoff, I. M.** L'Emploi des Indicateurs Colorés. La Détermination colorimétrique de la Concentration des Ions Hydrogènes, 3rd Ed. (Review), 1926, 218.
- Methyl orange error in the determination of pH values by comparison with Clark's buffer solutions, 1926, 423.
- Pinachrome as a one-colour indicator, 1928, 455.
- Some colour reactions of magnesium, 1930, 769.
- Specific colour reaction for magnesium and a colorimetric method for the determination of traces of magnesium, 1927, 430.
- Specific reaction for sodium, 1927, 304.
- The cobalt thiocyanate reaction for the detection of cobalt and thiocyanate, 1930, 529.
- The Practice of Volumetric Analysis. Part 2 (Review), 1929, 257.
- Uranyl zinc acetate as reagent for the quantitative determination of sodium, 1929, 435.
- Use of methoxytriphenylcarbinols as one-colour indicators, 1927, 430.
- Volumetric Analysis. Vol. I, Theoretical Principles of Volumetric Analysis (Review), 1929, 194; Vol. II, Practical Volumetric Analysis (Review), 1929, 691.
- Volumetric determination of hydroquinone, 1927, 46.
- Volumetric determination of hypophosphites, 1928, 595.
- See also Abeledo, C. A.
- See also Barber, H. H.
- See also Sarver, L. A.
- Kolthoff, I. M., and Elmquist, R.** Determination of lanthanum (new colorimetric method), 1931, 417.
- Kolthoff, I. M., and Fischgold, H.** Säure-Basen-Indikatoren, 4th Ed. (Review), 1933, 375.
- Kolthoff, I. M., and Furman, N. H.** Potentiometric Titrations (Review), 1927, 253; 2nd Ed., 1932, 350.
- Kolthoff, I. M., and Kuyiman, H. A.** Gravimetric determination of copper as cuprous iodide, 1926, 367, 424.
- Kolthoff, I. M., and Larson, W. D.** Titration of chloride and bromide with mercurous nitrate with bromophenol blue as adsorption indicator, 1934, 847.
- Kolthoff, I. M., and Lingane, J. J.** Volumetric determination of uranium. Application to the indirect titration of minute quantities of sodium, 1933, 419.
- Kolthoff, I. M., and Noponen, G. E.** Colorimetric determination of nitrates by means of diphenylaminesulphonic acid, 1933, 368.
- Kolthoff, I. M., and Robinson, C.** Determination of nitro-compounds by reduction with titanous chloride, 1926, 263.
- Kolthoff, I. M., and Sandell, E. B.** Separation of beryllium from aluminium by hydroxyquinoline, 1928, 508.
- Volumetric determination of manganese as dioxide, 1929, 769.
- Kolthoff, I. M., and Stenger, V. A.** Calcium hypochlorite as a volumetric oxidising agent. Determination of ammonia, 1935, 341.
- Kolthoff, I. M., and Van Berk, L. H.** Potassium bi-iodate as a standard substance in alkali-metric and iodimetric titrations, 1927, 48.
- The accuracy of argentometric halogen titrations, 1927, 304.
- Kolthoff, I. M., and Van Der Meene, G. H. P.** Gravimetric determination of copper as thiocyanate, 1928, 177.
- Kolthoff, I. M., and Yutzy, H.** Nephelometric determination of chloride, 1933, 421.
- Kolthoff, I. M., Sandell, E. B., and Moskovitz, B.** Volumetric determination of nitrates with ferrous sulphate as reducing agent, 1933, 369.
- Kolthoff, I. M., Stenger, V. A., and Moskovitz, B.** Benzoate method for the precipitation of iron, aluminium and chromium, 1934, 435.
- Separation of iron, aluminium and chromium from bivalent metals by means of ammonium benzoate, 1934, 572.
- Komárek, K.** See Tomicek, O.
- Komarowsky, A. S.** Solution of sulphide precipitates in acidified hydrogen peroxide, 1928, 176.
- Komarowsky, A. S., and Goremykin, W. J.** Qualitative analysis without ammonium sulphide, 1932, 333.
- Komarowsky, A. S., and Korenman, I. M.** Colour reaction of (magnesium and beryllium), zirconia, thoria and rare earths with quinalizarin, 1933, 781.
- Komarowsky, A. S., and Poluektoff, N. S.** New spot test for beryllium, 1934, 575.
- Sensitive reaction for boric acid, 1934, 720.
- Komarowsky, A. S., Filonowa, W. F., and Korenman, I. M.** Applications of chloramine in volumetric analysis, 1934, 436.
- Kometiani, P. A.** Iodimetric method for the determination of citric acid, 1932, 192.
- Komori, S.** See Ueno, S.
- Kon, S. K.** See Booth, R. G.
- Kon, S. K., and Booth, R. G.** Vitamin D activity of butter. I, Chemical differentiation of the antirachitic factor of autumn and winter butter from irradiated ergosterol and the vitamin D of cod-liver oil, 1934, 53.
- Kon, S. K., and Henry, K. M.** Effect of feeding cacao shell to cows on the vitamin D content of butter (milk), 1935, 836.
- Kon, S. K., and Mayzner, M.** Antirachitic value of irradiated yeast, 1930, 400.
- König, W.** See Treadwell, W. D.
- Koolhaas, D. R.** See Rowaan, P. A.
- Kopaczewski, W.** Introduction à l'Étude des Colloïdes (État colloïdal et ses applications) (Review), 1926, 323.
- Koppenhoefer, R.** See Moore, E. K.
- Kordatzki, W.** See Fiehe, J.
- Korenman, I. M.** Detection of ferricyanide in presence of ferrocyanide, 1935, 639.
- Quinoline as a microchemical reagent for some of the heavy metals, 1931, 482.
- Korenman, I. M.** Sensitive microchemical reaction of picric acid with salts of copper and some other heavy metals, 1933, 373.
- Spot tests for some organic compounds, 1933, 371.
- Use of indigo carmine in micro-volumetric analysis, 1935, 782.
- See also Komarowsky, A. S.

- Korpáczy, S.** Determination of the rancidity of fats by Stamm's reaction, 1934, 183.
- Koshitaka, T.** See Yamada, S.
- Kosman, M.** See Lukirsky, P.
- Kosmin, N. P., and Alakrinskaja, K. A.** Determination of the acid value of flour-fat for judging the age of flour, 1935, 416.
- Kossel, A.** The Protamines and Histones (Review), 1929, 71.
- Kostka, G.** The ultra-violet-detector as an aid in distinguishing real amber from its imitations, 1929, 256.
- Közegi, D.** Volumetric determination of hypophosphites, 1926, 426.
— Volumetric method for copper, 1927, 250.
- Közegi, D., and Tomori, N.** Determination of starch in paprika adulterated with flour, 1934, 494.
— Volumetric determination of iodine in mercury compounds, 1935, 340.
- Kota, J.** See Jilek, A.
- Koyama, R.** Fats of Japanese birds, 1928, 543.
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- Kracek, F. C.** See Henderson, L. M.
- Krainick, H. G.** See Lieb, H.
- Krais, P.** Detection and estimation of chemical damage in wool, 1932, 588.
- Krais, P., and Markert, H.** Quantitative determination of cotton, wool, silk and artificial silks in mixed textiles, 1932, 667.
- Krajcinovic, M.** Quantitative determination of acetone in mixtures of other organic solvents by means of hydroxylamine hydrochloride, 1932, 123.
- Kramer, H.** See Good, C. A.
- Kramer, J.** See Lehrman, L.
- Kramer, M. M.** See Craven, V. C.
- Kramer, M. M., Latzke, E., and Shaw, M. M.** Comparison of raw, pasteurised, evaporated and dried milks as sources of calcium and phosphorus for the human subject, 1928, 607.
- Krantz, J. C.** See Carr, C. J.
- Krasnitz, A.** See Osborn, R. A.
- Krasnowsky, O. W.** Determination of alumina in borosilicates, 1930, 154.
— See also Murawleff, L.
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- Krause, A. G.** See Underhill, P. F.
- Krause, H.** Secretion of nitrates with milk, 1926, 255.
- Krauskopf, F. C., and Swartz, C. E.** Detection of molybdenum by thiocyanate, 1927, 105.
- Krauss, F., Kleucker, E., and Kollath, A.** Caffeine content of maté, 1933, 766.
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- Kraut, H.** Detection of yeast by the yeast gum reaction in the presence of the products of hydrolysis of animal proteins and of animal organs, 1928, 228.
- Kray, E. H.** Determination of very small amounts of yellow phosphorus in red phosphorus, 1927, 605.
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- Kreipe, H.** Reif's colour reaction for the detection of benzylidenesorbitol, 1934, 420.
- Kremer, J. N.** See Tananaeff, N. A.
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- Krestowoudwigenskaja, T. N.** See Kulikow, J. W.
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- Krishna, B. H. R., and Sreenivasaya, M.** Determination of pyruvic acid, 1929, 59.
- Krishna, S.** See Puntambekar, S. V.
- Krishna, S., and Ghose, T. P.** Indian ephedras. Their extraction and assay, 1929, 297.
- Krishna, S., and Puntambekar, S. V.** Oil from the seeds of *Putranjiva Roxburghii*, Wall, 1931, 670.
- Krishna, S., and Singh, H.** Determination of -SOOH (sulphinic group) and of ferric iron, 1928, 303.
- Krishnan, P. S.** See Aiyar, S. S.
- Kriss, M.** Computation of the net energy values of feeding stuffs, 1926, 156.
- Křizenecký, J., and Nevalonnyj, M.** Vitamin values of fermentation vinegar and of artificial "essence" vinegars, 1933, 770.
- Króner, E.** Determination of tellurium in tellurium-lead, 1935, 431.
- Kronmann, E.** Determination of rhenium, 1932, 739.
- Krüger, A.** Chromium steel vessels for analytical purposes, 1931, 767.
— Precipitation of metals of the ammonium sulphide group, 1933, 637.
- Krüger, D., and Tschirch, E.** Detection of small quantities of perchlorates, 1931, 691.
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— Honey and gingerbread, 1930, 200.
— Modification of the Seliwanoff and Ihl-Pechmann reactions for laevulose, 1932, 386.
— Test for iodide, 1932, 672.
- Kruisheer, C. I., Vorstman, N. J. M., and Kniphorst, L. C. E.** Determination of hydroxymethylfurfural and of laevulose in port wines and other sweet wines, 1935, 704.
- Krumholz, P.** See Feigl, F.
- Krumholz, P., and Kruh, O.** Detection of cadmium as selenide, 1935, 636.
- Krumholz, P., and Sanchez, J. V.** Detection of zinc by induced precipitation, 1935, 58.
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- Kruse, H. D., Day, H. G., and McCollum, E. V.** Nutritive deficiencies of gelatin, 1934, 189.
- Kruse, T. K.** Oxygen absorption by anthraquinone- β -sulphonic acid in alkaline solution, 1926, 214.
- Kruyt, H. B.** Colloids (Review), 1928, 114; 2nd Ed., 1930, 777.
- Kubelkova, O.** See Knop, J.
- Kubina, H., and Plichta, J.** Sensitive test for bismuth, 1927, 659.
— Volumetric determination of bismuth, 1928, 58.
- Küchler, K.** Determination of free hydrochloric acid in presence of ferric and aluminium chlorides, 1930, 597.
- Kühl, H.** Gliadins of rye and wheat, 1933, 355.
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- Kuhlmann, J.**, and **Grossfeld, J.** New distinguishing value for milk fat, 1926, 305.
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- Kulikow, J. W.**, and **Krestowosdwigenskaja, T. N.** Detection and determination of small amounts of pyridine, 1930, 344.
- Kulman, J.** Detection of the bleaching of flour with chlorine and nitric oxide, 1930, 281.
— Determination of bromates in flour, 1935, 104.
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— Separation of potassium and sodium chlorides by means of aniline bitartrate, 1933, 302.
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- Kürschner, K.**, and **Hoffer, A.** Determination of cellulose, 1931, 332.
- Kurtenacker, K.**, and **Wollak, R.** Determination of sulphate in presence of other sulphur compounds, 1927, 433.
- Kurtz, F. E.** Application of selenium catalyst in the determination of nitrogen and phosphorus in phospholipids, 1933, 636.
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- Labarre, —.** See Laurence, —.
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- Lacey, R.** See Edwards, K. B.
- Lachele, C. E.** Determination of minute quantities of sulphide sulphur, 1934, 503.
- Lackey, J. B.** See Rudolfs, W.
- Lackner, T. U.** See Kemp, A. R.
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- La Laude, W. A.** See Müller, J. H.
- Lallemand (Mme) S.** Cellular toxicity of gaseous and volatile poisons, 1929, 359.
- Lamb, J. D.**, and **Smith, S.** Strophanthin of *Strophanthus Eminii*, 1935, 483.
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- Lampert, L. M.** Cholesterol as a measure of egg yolk in milk products, 1930, 394.
- Lampitt, L. H.** Appointed a member of the Food Investigation Board of the Dept. of Scientific and Industrial Research, 1934, 818.
— Review of the *Annual Reports on the Progress of Applied Chemistry* for the year 1931, 1932, 479.
- Lampitt, L. H.** Review of Turnbow and Raffetto's *Ice Cream*, 1928, 408.
— Review of Winton's *Structure and Composition of Foods*, Vol. I, 1932, 545; Vol. II, 1935, 852.
— See also Bushill, J. H.
— See also Sylvester, N. D.
- Lampitt, L. H.**, and **Bogod, M.** Determination of lactic acid in milk and milk products, 1931, 320.
- Lampitt, L. H.**, and **Bushill, J. H.** Dialysis of milk. Distribution of phosphorus, 1933, 615.
— Factors affecting the distribution of calcium and phosphorus, 1934, 828. Erratum, 1935, 195.
— Physico-chemical constitution of spray-dried milk powder. Fat in spray-dried milk powder, 1931, 256.
— The physico-chemical constitution of milk powder, 1931, 778.
- Lampitt, L. H.**, and **Hughes, E. B.** The composition of fruit, 1928, 32.
- Lampitt, L. H.**, and **Norris, M. E. G.** Measurement of the strength of gelatin gels, 1934, 577.
- Lampitt, L. H.**, and **Rooke, H. S.** The occurrence and origin of lead in canned sardines, 1933, 733.
- Lampitt, L. H.**, and **Sylvester, N. D.** The determination of small amounts of aluminium in food, 1932, 418.
- Lampitt, L. H.**, **Hughes, E. B.**, and **Rooke, H. S.** Furfural and diastase in heated honey, 1929, 381, 736.
— The diastatic activity of honey, 1930, 666.
- Lampitt, L. H.**, **Hughes, E. B.**, and **Trace, L. H.** On the presence and detection of furfural in vinegar, 1927, 260.
- Lampitt, L. H.**, **Hughes, E. B.**, **Bilham, P.**, and **Fuller, C. H. F.** The determination of copper in foodstuffs, 1926, 327.
- Lampitt, L. H.**, **Sylvester, N. D.**, and **Bilham, P.** Irradiation of fats. I. A standardised method of use of ultra-violet light, 1935, 577.
- Lamplough, F. E.** The properties and applications of "Vita" glass, 1929, 495.
- Lamson, P. D.**, **Robbins, B. H.**, and **Ward, C. B.** Pharmacology and toxicology of tetrachlorethylene, 1929, 358.
- Lander, G. D.** The micro-detection of alkaloids, 1930, 474.
- Landis, Q.**, and **Wichmann, H. J.** Separation of alkyl and aryl halogen, 1931, 61.
- Landon, M.** Auto-oxidation of ether, 1935, 259.
— Determination of peroxides in ether, 1935, 260.
- Lane, J. H.** See Eynon, L.
- Lane, J. H.**, and **Eynon, L.** Determination of Reducing Sugars by Fehling's Solution with Methylene Blue Indicator (Review), 1934, 852.
— Volumetric determination of lactose in presence of sucrose, 1928, 43.
- Lang, K.** Colorimetric method for the determination of sulphur and sulphate in biological liquids, 1930, 203.
- Lang, R.** Oxidimetric determination of cerium by means of dichromate and arsenite, 1934, 646.
— Volumetric determination of manganese by conversion into manganic salt, 1935, 718.

- Lang, R., and Reifer, J.** Iodimetric determination of copper, iron, zinc and aluminium in the presence of each other, **1933**, 496.
- Lange, J.** See Fleury, P.
- Lange, N. A.** Handbook of Chemistry (Review), **1935**, 126.
- Lange, N. A., Ebert, H. L., and Youse, L. K.** Relations between constitution and taste of pungent principles, **1929**, 480.
- Langedijk, S. L.** Quantitative determination of acetaldehyde in very dilute solutions, **1927**, 358.
- Langenbruch, H.** Use of ultra-violet rays in the examination of writing, **1930**, 468.
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- Langton, H. M.** Blacks and Pitches (Review), **1926**, 168.
- Review of Green's *Industrial Catalysis*, **1928**, 621.
- Review of Mantell's *Industrial Carbon*, **1929**, 622.
- Langworthy, —.** See Kidd.
- Lansberg, L. M.** See Elzas, M.
- Lapin, L., and Hein, W.** New colour reaction of ammonia, **1934**, 773.
- Lapin, L. N.** Diphenylcarbazide as a reagent for hydrogen peroxide, **1935**, 841.
- LaQue, F. L.** See Searle, H. E.
- See also Trebler, H. A.
- Larch, W., and Bogue, R. H.** Determination of uncombined lime in Portland cement, **1926**, 480.
- Larsen, L. M.** Identification of aluminium and magnesium in printing inks, **1931**, 64.
- Larson, H. W.** Colorimetric method for determination of allantoin, **1932**, 184.
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- Lasarkewitch, N. A.** See Tananaeff, N. A.
- Lasausse, —.** See Pellerin.
- Lasausse, E.** Composition of preserved peas in relation to their diameter, **1926**, 199.
- Lasker, M., and Enklewitz, M.** Simple method for detection and determination of *l*-xyloketose in urine, **1933**, 558.
- Lasselle, P. A.** See Williams, R. J.
- Lassieur, A.** Analysis of phosphate-bearing silicates, **1934**, 504.
- Co-precipitation of magnesium with aluminium precipitates, **1926**, 368.
- Electrolytic separations by graded potentials, **1926**, 597.
- Lathbury, K. C., and Greenwood, G. N.** Influence of the solvent on the biological assay of vitamin A, **1935**, 195.
- Lathrap, C. A.** Iodine value and refractive index of perilla oil, **1932**, 661.
- Latzke, A.** Penetration of ultra-violet rays through fabrics, **1929**, 484.
- Latzke, E.** See Kramer, M. M.
- Lauer, W. M., and Dobrovolny, F. J.** Semi-micro combustion method for the determination of carbon and hydrogen, **1930**, 467.
- Lauer, W. M., and Sunde, C. J.** Semi-micro combustion determination of nitrogen, **1930**, 466.
- Laurence, —., and Labarre, —.** Iodimetric determination of morphine, **1934**, 832.
- Laurens, H.** The Physiological Effects of Radiant Energy (Review), **1934**, 142.
- Laurie, A. P.** Fused beads on platinum wire as solvents for small particles of insoluble material, **1934**, 746.
- Identification of pigments used in painting at different periods, with a brief account of other methods of examining pictures, **1930**, 162.
- Methods of testing minute quantities of material from pictures and works of art, **1933**, 468.
- Old Masters and modern forgeries, **1934**, 657.
- Review of de Wild's *The Scientific Examination of Pictures*, **1930**, 306.
- Lavritzen, J. I.** Infection and temperature relations of black rot of sweet potatoes in storage, **1927**, 99.
- Lauro, M. F.** Use of selenium as catalyst in the determination of nitrogen by the Kjeldahl method, **1931**, 813.
- See also Trevithick, H. P.
- Lautié, R.** See Carrière, E.
- Lavine, T. F.** Iodimetric determination of cysteine, **1935**, 424.
- Lavollay, J.** Determination of base-exchange in soils by means of copper, **1935**, 775.
- La Wall, C. H., and Harrison, J. W. E.** Caffeine in cereal beverages, **1932**, 786.
- Detection of soya bean flour in manufactured foods, **1934**, 552.
- Lawler, B. M.** See Mudge, C. S.
- Lawrence, G. A.** Analysis of meat and bone meals, **1935**, 611.
- Lawrie, J. P.** Determination of silver in photographic emulsions, **1930**, 216.
- Lawrie, J. W.** Glycerol and the Glycols (Review), **1929**, 128.
- Lawrie, L. G.** See Horsfall, R. S.
- Lawson, W.** Determination of inorganic iodine in desiccated thyroid gland, **1933**, 486.
- See also Dickens, F.
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- The fat of sow's milk, **1931**, 321.
- Lea, C.** Control of sewage chlorination. The use and value of the *o*-tolidine test, **1933**, 779.
- Lea, C. H.** Action of light on fats, **1933**, 425.
- Chemical changes in the fat of frozen and chilled meat. I, Frozen mutton and lamb, **1931**, 538; II, Chilled beef, **1931**, 610; III, Frozen bacon, **1931**, 759; V, The effect of smoking and the influence of atmospheric humidity on the keeping properties of bacon, **1933**, 288.
- Cold storage of poultry. Chemical changes in the fat of gas-stored chickens, **1935**, 44.
- Comparison of the susceptibilities of oils and fats to oxidation, **1935**, 114.
- Component glycerides of cacao butter, **1929**, 242.
- Determination of aldehydes in rancid fats, **1934**, 702.
- Influence of salts used in curing on the oxidation and yellowing of lard, **1934**, 555.
- Taint production in the fat of chilled beef, **1935**, 107.

- Lea, C. H.** See also Collin, G. ●
- Lea, F. T.** See Crennell, J. T.
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- Leather, A. N.** The detection of benzoic acid, 1931, 299.
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- Lebeau, P., and Marmasse, P.** Determination of small quantities of hydrogen in gaseous mixtures, 1926, 366.
- Leber, M.** See Volmar, Y.
- Lebourq, J.** Determination of cyanates, with an application to potassium cyanate, 1927, 489.
- Lecat, M.** L'Azotropisme: La Tension de Vapeur des Mélanges de Liquides, 1933, 126.
- Le Clerc, J. A.** See Coe, N. R.
— See also Davidson, J.
- Lecomber, L. V.** See Fargher, R. G.
- Lecoq, R.** Substitution of glycerides by the corresponding fatty acids in a balanced ration, 1935, 562.
— See also Randoin, L.
- Ledrut, J., and Hauss, L.** Volumetric determination of cobalt with permanganate, 1932, 409. ●
- Lee, A. R.** An Ostwald viscometer for tar, 1934, 578.
- Lee, M. F.** See Churchill, H. V.
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- Lee, W.** The physical and chemical characteristics of turtle oil, 1935, 650.
- Leech, E. B.** Treatment of poisoning, 1927, 174.
- Leeper, G. W.** Notes on the thiocyanate method of estimating iron. Influence of different classes of phosphates, 1930, 370. Erratum, 1931, 183.
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- Leete, C. S.** Relation between the bacterial count of whole milk and that of the cream and skim milk separated from it, 1926, 208.
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- Leffmann, H., and Pines, C. C.** Quality of commercial ether, 1930, 399.
— Tests for isopropanol, 1930, 209.
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- Legendre, R.** New colorimeter, 1933, 502.
— Use of coloured pH indicators to identify green or dry woods, 1927, 361.
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- Le Guyon, R. F.** Centrifuging in volumetric analysis, 1926, 536. ●
— Micro-titration of chromic and barium ions, 1927, 365. ●
- Le Guyon, R. F., and May, R. M.** Rapid method for the determination of phosphates, 1926, 48.
- Lehner, S.** Ink-manufacture, 3rd Ed. (Review), 1926, 544.
- Lehner, V., Smith, G. B. L., and Knowles, D. C.** Separation of gold from tellurium, 1934, 199.
- Lehrman, L.** Fatty acids associated with cassava starch, 1932, 527.
— Fatty acids associated with rice starch, 1929, 548.
— See also Taylor, T. C.
- Lehrman, L., and Kramer, J.** Application of the benzoate method for the separation of iron, aluminium and chromium in qualitative analysis, 1935, 197.
- Lehrman, L., Kabat, E. A., and Weisberg, H.** Precipitation of iron, chromium and aluminium by means of hexamethylene-tetramine, 1933, 715.
- Lehrman, L., Weisberg, H., and Kabat, E. A.** Organic reagents in qualitative analysis. II, Analysis of the common metals of the ammonium sulphide group, 1934, 844.
- Leiboff, S. L.** Colorimetric method for the determination of inorganic phosphate in blood serum, 1928, 663.
— Colorimetric method for determination of lipoidal phosphorus in blood, 1929, 50.
— See also Kahn, B. S.
- Leighton, P. A.** See Blacet, F. E.
- Leimbach, L. R.** See Frey, R. W.
— See also Veitch, F. P.
- Leipert, T.** Micro-determination of iodine in organic substances, 1930, 413.
- Leiter, L. W.** The Eijkman fermentation test as an aid in the detection of faecal organisms in water, 1929, 484.
— See also Damon, S. R.
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- Lejeune, A.** Differentiation of cotton and kapok, 1926, 265.
- Lematte, L., Boinot, G., Kahane, E., and Kahane, M.** Determination of choline and of acetylcholine, 1931, 408.
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- Lemay, —.** See Austerweil.
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- Lemoigne, M., and Monguillon, P.** Presence of acetylmethylcarbinol and of 2:3-butylene-glycol in the blood of the higher animals, 1930, 642.
- Lendrick, K., and Mayer, F.** New lead iodide double salt of trigonelline, 1931, 326.
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- Lepkovsky, S.** See Evans, H. M.
— See also Hart, E. B.
- Lepkovsky, S., and Hart, E. B.** Effect of fermentation with specific micro-organisms on the vitamin C content of orange and tomato juice, 1926, 155.
- Lepkovsky, S., Ouer, R. A., and Evans, H. M.** Nutritive value of the fatty acids of lard and some of their esters, 1935, 262.
- Lepkovsky, S., Popper, W., and Evans, H. M.** Concentration of vitamin G(B₂) by adsorption and elution from fuller's earth, 1935, 195.

- Lepper, H. A.** See Waterman, H. C.
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— Glycerin in cream, 1928, 335.
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— Review of Howe's *Chemistry in Industry*. Vols. I and II, 1926, 489.
— Review of *Reports on the Progress of Applied Chemistry*. Vol. X, 1925, 1926, 603; Vol. XI, 1926, 1927, 369.
— Routine detection of nitrates in milk, 1930, 433.
— The biological method for the detection of arsenic, 1932, 155.
— The volatility of salicylic acid, 1926, 79.
— Use of strips of mercuric chloride paper in the Gutzeit test, 1928, 90.
— Volatility of benzoic acid, 1926, 405.
— Water in cream, 1928, 488.
- Lerrigo, A. F., and Williams, A. L.** A study of the determination of saccharin, colorimetrically and by the ammonia process, 1927, 377.
- Leschke, E.** Clinical Toxicology (Review), 1934, 722.
- Lespagnol, A.** See Polonovski, M.
- Lessing, R.** Separation of zirconium from iron and aluminium, 1926, 161.
— See also Moser, L.
- Letonoff, T. V.** See Anderson, A. K.
- Leu, C.** Removal and determination of nitrogen in argon, 1928, 673.
- Leullier, A., and Griffon, H.** Colorimetric determination of strophanthins, 1929, 672.
- Levaditi, C., Bardet, J., Tchakirian, A., and Vaisman, A.** Distribution of gallium in the organism, 1931, 611.
- Levallois, F.** Tannins for use in wine making, 1926, 200.
- Levene, P. A.** Concentration of vitamin B. II, Concentration and separation of the two components of vitamin B, 1928, 666.
— Hexosamines and Mucoproteins (Review), 1926, 57.
— See also Taylor, F. A.
- Leverton, R. M.** See Smith, M. C.
- Levi, G. R.** X-ray examination and structure of textile fibres, 1927, 615.
- Levi, T. G.** See Bruni, G.
- Levine, H., and Smith, A. H.** Growth experiments on diets rich in fat, 1927, 293.
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- Levine, M., Petersen, E. E., and Buchanan, J. G.** Germicidal efficiency of sodium hydroxide, sodium carbonate and trisodium phosphate at the same hydrogen ion concentration, 1928, 170.
- Levine, V. E., and Richman, E.** Antimony trichloride reaction with compounds containing five-membered mono-heterocyclic rings, 1933, 562.
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- Levy, B.** Bromimetric determination of ammoniacal nitrogen, 1931, 478.
- Levy, G.** See Bertrand, G.
- Levy, M., and Doisy, E. A.** The reaction of borate and sugars. II, Optical activity of sugars in borax solution and the configuration of mutarotatory isomers, 1930, 50.
- Levy, P.** Halogen values of aleurites oils, 1933, 361.
- Lewin, J. U.** Review of Perkin's *Qualitative Chemical Analysis*, 5th Ed., 1935, 789.
— Review of *Van Nostrand's Chemical Annual*, 7th Issue, 1935, 648.
— See also Cox, H. E.
- Lewin, L.** Banisterine, a new narcotic and medicament, 1928, 389.
- Lewis, A. H.** Separation of fatty acids, 1927, 245.
— See also Hardy, F.
- Lewis, A. H., and Marmoy, F. B.** Determination of small amounts of potassium by the cobalt-nitrite method, 1933, 499.
- Lewis, E. J.** See Park, B.
- Lewis, E. J., and King, G.** The Making of a Chemical (Review), 1927, 662.
- Lewis, H. B.** See Lough, S. A.
- Lewis, H. B., and Wilson, R. H.** Determination of cystine in urine, 1926, 589.
- Lewis, J. R., and Klockow, R. F.** Use of potassium iodate in back titration for the determination of the hypochlorite content of solutions, 1929, 123.
- Lewis, M. N.** See Thornton, W. M.
- Lewis, S. Judd.** A simple polarimetric test for sugars in jams, 1930, 384.
— Assimilation of aluminium by the human system, 1932, 324.
— Quantitative spectroscopy and its analytical applications, 1935, 10.
— Report on the International Society of Medical Hydrology, 1929, 33.
— Review of Baly's *Spectroscopy*. Vols. II and III, 1927, 732.
— Review of Davies' *The Conductivity of Solutions and the Modern Dissociation Theory*, 1930, 469.
— Review of Twyman and Allsopp's *The Practice of Absorption Spectrophotometry*, 2nd Ed., 1935, 127.
— Review of Yoe's *Photometric Chemical Analysis*. Vol. I, Colorimetry, 1929, 193; Vol. II, Nephelometry, 1929, 564.
- Lewis, W. C. M.** Review of Clayton's *Colloid Aspects of Food Chemistry and Technology*, 1932, 133.
— Review of Clayton's *The Theory of Emulsions and their Technical Treatment*, 2nd Ed., 1928, 185.

- Lewis, W. L., Vose, R. S., and Lowry, C. D.** Use of sodium nitrite in curing meats, 1926, 90.
- Lewkowitsch, E.** Composition of cocoa butter, 1933, 763.
- Lewy, F.** See Rupp, E.
- Leysant, H.** Determination of sulphur in galena and lead, 1929, 489.
- Lichtman, S. S., and Sobotka, H.** Enzymic method for detection and determination of tyrosine in urine, 1930, 143.
- Lickorish, A. J. C.** Appointed Additional Public Analyst for the County of Bedford, 1932, 629.
— Appointed Public Analyst for City of London and Agricultural Analyst for City and Port of London, 1930, 565, 566.
— Report of the Public Analyst for the City of London for 1933, 1935, 36.
- Lieb, H.** Note on Schönell's heating block for the Pregl micro-carbon-hydrogen determination, 1934, 718.
- Lieb, H., and Kgainick, H. G.** Micro-determination of carbon by the wet method, 1932, 273.
- Lieber, R.** See Vortmann, G.
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- Lieberson, A.** Detection and determination of cobalt by arsenophosphotungstic acid, 1930, 294.
- Light, R. F., Miller, G. E., and Frey, C. N.** Effects of overdosage of vitamin D, 1931, 548.
- Lightbody, H. D.** See Huston, R. C.
- Lindeman, T., and Halstad, M.** Determination of cerium, 1927, 365.
- Lindemann, E.** See Grossfeld, J.
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- Linderström-Lang, K.** The indicator question, 1928, 558.
— Volumetric determination of amino nitrogen, 1928, 174.
— See also Olsen, C.
- Linderström-Lang, K., and Holter, H.** Micro-method for the determination of ammonia, 1934, 206.
— Micro-method for the determination of sugars, 1933, 568.
- Linderström-Lang, K., Palmer, A. H., and Holter, H.** Micro-determination of chloride in tissues, 1935, 421.
- Lindner, J.** Gas-holder for constant pressure, 1934, 139.
— Mikro-Massanalytische Bestimmung des Kohlenstoffes und Wasserstoffes, 1935, 728.
- Lindner, K.** Determination of true complex sulphonic acids in materials used in the textile and tanning industries, 1935, 490.
- Lindow, C. W.** See Elvehjem, C. A.
- Lindow, C. W., and Peterson, W. H.** Manganese content of plant and animal materials, 1928, 43.
- Lindow, C. W., Elvehjem, C. A., and Peterson, W. H.** Copper content of plant and animal foods, 1929, 420.
- Lindsey, A. J.** A hydrogen electrode vessel, 1932, 573.
— A modified Gutzeit arsenic apparatus, 1930, 503.
— The electrolytic determination of lead as dioxide and its conversion into monoxide by ignition, 1935, 598.
- Lindsey, A. J.** The micro-electrolytic determination of bismuth and lead and their separation by graded potential, 1935, 744.
- Lindsey, A. J., and Sand, H. J. S.** Experiments on the electrolytic analysis of certain alloys of antimony, copper and tin, 1934, 335.
— Simplifications in the method of separation of metals by graded potential, 1934, 328.
— The application of controlled potential to microchemical electrolytic analysis, 1935, 739.
- Lina, J.** Aluminium and acid soils, 1926, 532.
- Ling, A. R.** Review of Haldane's *Monograph on Enzymes*, 1931, 343.
— Review of Harden's *Alcoholic Fermentation (Monographs on Biochemistry)*, 4th Ed., 1932, 546.
— Review of Klein's *Handbuch der Pflanzenanalyse*, 1931, 621.
— Review of Schoen's *The Problem of Fermentation*, 1929, 440.
— Review of Thayson and Galloway's *The Microbiology of Starch and Sugars*, 1930, 723.
— Review of Waldschmidt-Leitz's *Enzyme Actions and Properties*, 1930, 69.
- Ling, A. R., and Carter, W. A.** The volumetric determination of reducing sugars. Part 4, Invert sugar, 1930, 730.
- Ling, E. R.** A Text Book of Dairy Chemistry (Review), 1930, 659.
- Ling, S. M.** Determination of cholesterol in small amounts of blood, 1928, 231.
- Lingane, J. J.** See Kolthoff, I. M.
- Linggood, F. V.** Decarboxylation of pectin, 1930, 462.
- Linhorst, E. F.** Determination of vapour densities at room temperatures, 1929, 372.
- Link, K. P.** See Niemann, C.
- Link, K. P., and Walker, J. C.** Isolation of catechol from pigmented onion scales and its significance in relation to disease resistance in onions, 1933, 355.
- Link, K. P., Angell, H. R., and Walker, J. C.** Isolation of protocatechuic acid from pigmented onion scales, 1929, 240.
- Link, K. P., Dickson, A. D., and Walker, J. C.** Further observations on the occurrence of protocatechuic acid in pigmented onion scales and its relation to disease resistance in the onion, 1930, 60.
- Linke, B., and Preisseecker, H.** Precipitation of tin as stannous sulphide, 1933, 780.
- Linsler, H.** Micro melting-point determinations, 1932, 412.
- Linstead, R. P., and Mann, J. T. W.** Quantitative determination of mixtures of isomeric unsaturated compounds. A review of the iodimetric methods and a new bromimetric method, 1931, 414.
- Lipman, C. B., and Greenberg, L.** New autotrophic bacterium which oxidises ammonia directly to nitrate and decomposes petroleum, 1932, 263.
- Lipscomb, A. G.** A new attachment for bottles used for the storage of standard solutions, 1928, 645.
— Cellulose Acetate: Its Manufacture and Applications (Review), 1933, 505.
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- Litterscheid, F. M.** Enamel containing anti-mony, 1928, 501.
- New sorbite process for the detection of fruit wine in grape wine, 1932, 178.
- Littman, Z.** Volumetric separation of selenium and tellurium, 1927, 365.
- Liversedge, S. G.** The determination of alcohol in dilute solution by means of acid dichromate, compared with the specific gravity method, 1931, 595.
- Ultra-violet rays as a test for the stability of anaesthetic ether, 1934, 815.
- Liverseege, J. F.** Adulteration and Analysis of Foods and Drugs (Review), 1932, 595.
- Adulteration statistics, 1928, 86.
- Calculation of alcohol from the specific gravity, 1931, 529.
- Dried sulphate of iron, 1927, 239.
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- The composition of milk in "Appeal to the Cow" cases, 1926, 295.
- Lix, G.** See Bleyer, B.
- Lloyd, D. Jordan.** Review of Darwin's *The New Conceptions of Matter*, 1932, 413.
- Review of Drummond, Hill, Dale and Henderson's *Lectures on Certain Aspects of Biochemistry*, 1926, 431.
- Review of Durrans', *Solvents*, 1930, 726.
- Review of Gortner's *Outlines of Biochemistry*, 1930, 227.
- Review of Holmes' *Laboratory of Colloid Chemistry*. Introductory Colloid Chemistry, 1934, 441.
- Review of Kossel's *The Protamines and Histones*, 1929, 71.
- Review of Levene's *Hexosamines and Mucoproteins*, 1926, 57.
- Review of Michaelis' *Practical, Physical and Colloid Chemistry for Students of Biology and Medicine*, 2nd Ed., 1926, 221.
- Review of Oppenheimer's *Chemische Grundlagen der Lebensvorgänge*, 1935, 724.
- Review of Pryde's *Recent Advances in Biochemistry*, 1927, 58.
- Review of Stephenson's *Monographs on Biochemistry: Bacterial Metabolism*, 1930, 355.
- Review of Williams' *An Introduction to Biochemistry*, 1932, 481.
- Review of Wilson's *The Chemistry of Leather Manufacture*, 1930, 230.
- The Chemistry of Proteins and its Economic Applications (Review), 1926, 429.
- Lloyd, D. Jordan, and Marriott, R. H.** Interpretation of photomicrographs (of leather fibres), 1932, 276.
- Lloyd, R. B.** Group-specific substances in forensic medicine, 1932, 262.
- Lobo, R.** See Chéramy, P.
- Lobstein, E., and Ancel, M.** Determination of sulphate in wine by the benzidine method, 1933, 700.
- Loch, P.** Apparatus for the quantitative recovery of dialysates, 1935, 642.
- Lochmann, G.** Detection of oxalic acid as oxalato-manganate, 1933, 299.
- Lochte, H. L.** New micro method for determining carbon in organic compounds, 1926, 364.
- Lockemann, G., and von Bülow, B.** The Gutzeit test for arsenic, 1933, 780.
- Lockwood, H. C.** Notes on the use of the Hortvet apparatus in determining the freezing-point of milk, 1932, 698.
- Loebich, O.** Determination of perchloric acid, 1926, 371.
- Loewy, A., and Cronheim, G.** Colouring matters of butter, 1933, 411.
- Löffler, H.** Determination of hygroscopic moisture in coals, 1929, 433.
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- Lombard, C. F.** See Chaney, A. L.
- Lomholt, S.** Electrolytic method for investigating the circulation of gold in the animal organism, 1926, 97.
- Looney, J. M.** Colorimetric determination of tyrosine, tryptophane and cystine in proteins. II, 1926, 588.
- Determination of blood urea nitrogen by direct Nesslerisation, 1930, 642.
- Lorand, E.** Action of sulphur monochloride on petroleum hydrocarbons, 1927, 490.
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- Loriette, P.** Apparatus for the dehydration of volatile liquids, 1927, 107.
- Lorman, Ch.** Determination of chloral in syrup of chloral, 1929, 244.
- Lothrop, R. E.** Specific test for orange honey, 1932, 784.
- Lothrop, R. E., and Gertler, S. I.** Determination of amino acids and related compounds in honey, 1933, 350.
- Lothrop, R. E., and Paine, H. S.** Some properties of honey colloids and the removal of colloids from honey by bentonite, 1931, 402.
- Louden, C. R.** See Dodd, F. R.
- Lough, S. A., and Lewis, H. B.** Reaction of nitrous acid with cystine and related sulphur-containing compounds, 1934, 424.
- Standards for purity and the determination of "ethyl" vanillin, 1934, 730.
- The detection and identification of metallic particles in manufactured products, 1934, 812.
- Love, M. McF.** See Cockburn, T.
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- Lovern, J. A.** Fat metabolism in fishes. III, Selective formation of fat-deposits, 1934, 557.
- Halibut-liver oil as a source of vitamin A, 1932, 468.

- Lovern, J. A.** See also Guha, K. D., and Lovern, J. A.
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- Low, A. H.** Technical Methods of Ore Analysis (Review), 1928, 361.
- Löwe, F.** Determination of quartz dust particles in the atmosphere, 1933, 571.
- Lowe, H.** Appointed Agricultural Analyst for the Counties of Anglesey and Caerharvon and the County Borough of Chester, 1932, 163; for the County of Denbigh, 1932, 519.
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— Cheshire butters and cheeses of low Reichert-Meissl value, 1928, 89.
— Obituary of T. P. Blunt, 1929, 132.
— Poisoning by bitter-sweet (*Solanum dulcamara*), 1929, 153.
- Lowndes, J.** See Plimmer, R. H. A.
- Lowry, C. D.** See Lewis, W. L.
- Lowry, T. M.** Optical Rotatory Power (Review), 1935, 499.
- Lowson, W.** "Greasy" burettes, 1928, 113.
- Lozinski, E., Holden, G. W., and Diver, G. R.** Relative activity of ergotoxine and ergotamine, with special reference to the assay of ergot preparations, 1933, 705.
- Lubatti, O. F.** Determination of ethylene oxide, 1932, 794.
- Lucas, A.** Ancient Egyptian Materials (Review), 1927, 59; 2nd Ed., 1935, 64.
— Ancient Egyptian Materials and Industries about 1350 B.C., 1933, 654.
— Antiques: Their Restoration and Preservation, 2nd Ed. (Review), 1932, 744.
— Beam's colour test for hashish, 1933, 602.
— Forensic Chemistry and Scientific Criminal Investigation, 2nd Ed. (Review), 1932, 135.
— Problems in connection with ancient Egyptian materials, 1926, 435.
— Review of Lehner's *Ink Manufacture*, 3rd Ed., 1926, 544.
— Review of Partington's *Origins and Development of Applied Chemistry*, 1935, 498.
— The nature of the colour of pottery, with special reference to that of ancient Egypt, 1929, 686.
- Lucas, C. C.** See King, E. J.
— See also Ross, J. R.
- Lucas, H. J.** See Buxton, J.
- Lucas, R., and Grassner, F.** Collected references. Application of catalysis in micro-analysis, 1935, 848.
- Lucius, F.** Analysis of honey, 1927, 599.
— Determination of sugars in honey, 1926, 581.
— See also Nottbohm, F. E.
- Luck, J. M.** Determination of amino acid nitrogen in animal tissues, 1928, 345.
— Oxidation of dioxanthryl urea, and a micro method for the determination of urea, 1928, 607.
— The metabolism of amino acids, 1928, 345.
— See also Allen, F. W.
— See also Cady, O. H.
— See also Kiech, V. C.
- Lucke, D. T.** Appointment as Public Analyst for Metropolitan Borough of Hackney, 1930, 277.
- Ludorff, W.** See Dinslage, E.
- Lüers, H., and Weinfurter, F.** Relative effectiveness of disinfectants, 1926, 259.
- Luff, A. P., and Candy, H. G. H.** A Manual of Chemistry (Review), 1926, 166.
- Lugg, J. W. H.** Sullivan's reaction for the quantitative determination of cysteine and cystine, 1933, 629.
- Lührig, —.** Cases of poisoning by sodium silicofluoride, 1926, 99.
- Lukas, J.** See Hanus, J.
— See also Jilek, A.
- Lukirsky, P., and Kosman, M.** Method of measuring the size of particles, 1927, 173.
- Lumsden, J.** See Okell, F. L.
- Lund, H., Spur, B., and Fridericia, L. S.** Biological and titrimetric determination of vitamin C, 1935, 112.
- Lund, J.** Relations between the Constants of Fatty Oils (Review), 1927, 438.
- Lunde, G., and Mathiesen, E.** Determination of fish fat in sardines in oil, 1934, 47.
— Determination of tin in organic material, with special reference to canned foods, 1934, 636.
— Formaldehyde in canned marine products, 1934, 759.
- Lunde, G., Closs, K., and Bøe, J.** Micro-determination of iodine. Parts 1, 2 and 3, 1930, 413.
- Lundell, G. E. F.** See Bright, H. A.
— See also Hillebrand, W. F.
- Lundell, G. E. F., and Knowles, H. B.** Determination of uranium, 1926, 52.
— Rapid detection of small amounts of aluminium in certain non-ferrous materials, 1926, 214.
— Separation of aluminium by 8-hydroxyquinoline, 1929, 770.
- Lundsgaard, I. C., and Holbil, S. A.** Investigations into the standardisation and calibration of colloidion membranes, 1926, 428.
- Lundstrom, F. O.** See Whittaker, C. W.
- Lunge, G.** Technical Gas Analysis. Revised by H. R. Ambler (Review), 1934, 512.
- Lunge, G., and Keane, C. A.** Technical Methods of Chemical Analysis, 1931, 282.
- Lüning, O., and Brohm, K.** Occurrence of hydrogen phosphide in well waters, 1934, 55.
- Lüning, O., and Drude, W.** Absence of arachidic acid from cocoa butter, 1931, 602.
- Lunt, J. G.** Appointed Deputy Agricultural Analyst for the County Borough of Leicester, 1932, 163.
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- Lutochin, S. N.** Sugar content of water-melons and other types of melon, 1928, 101.
- Lutz, L.** Soluble enzymes secreted by hymenomycetic mushrooms. Comparison of the antioxygenic power of tannin and of the phenolic constituents of essential oils, 1931, 820.
- Lutz, R. P.** See Anderegg, F. O.
- Lynch, G. Roche.** Cases of poisoning and suspected poisoning, 1927, 174.
— Poisoning by carbon monoxide from a gas-heater, 1932, 516.
— Review of Autenrieth's *Laboratory Manual for the Detection of Poisons and Powerful Drugs*, 1929, 126.

- Lynch, G. Roche.** Review of Harrison's *Chemical Methods of Clinical Medicine*, 1931, 346.
 — Review of Leschke's *Clinical Toxicology*, 1934, 722.
 — Review of Peters and Van Slyke's *Quantitative Clinical Chemistry*. Vols. I and II, 1933, 181.
 — Review of Smith and Cook's revision of *Taylor's Principles and Practice of Medical Jurisprudence*, 1935, 643.
 — The precipitin test for blood, 1928, 435.
 — The technique of the precipitin test and its forensic value, 1928, 5.
 — See also Maclean, J. H.
- Lynch, G. Roche, and Fry, R. M.** Review of Damon's *Food Infections and Food Intoxications*, 1928, 405.
- Lynch, G. R., and Scovell, J. M. S.** Toxicology of thallium, 1931, 268.
- Lynch, G. R., Slater, R. H., and Osler, T. G.** The determination of traces of lead in biological materials, with special reference to bone, 1934, 787. Erratum, 1935, 32.
- Lynch, L. P., and Nodder, C. R.** Observations on the pH values of hypochlorite solutions, 1933, 52.
- Lyon, R., Fron, G., and Fournier, M.** Distinction of old from green woods, 1927, 361.
- Lyons, C. G., and Appleyard, F. N.** *Elementary Analytical Chemistry* (Clowes and Coleman), 12th Ed. (Review), 1935, 277.
 — Note on an attempted adsorption indicator method for the determination of alkali salts of organic acids, 1934, 480.
- Lyons, E.** Thioglycollic acid as a colour test for iron, 1927, 613.
- Lyons, R. E.** See Bradt, W. E.
- Lythzoe, H. C.** Ammonia content of cold-storage eggs, 1927, 596.
- Lytle, J. D., and Hearn, J. E.** Comparison of the Folin-Wu and the new Benedict method for sugar in blood and cerebrospinal fluid, 1926, 466.
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- Maas, O., and Barnes, W. H.** Automatic low-temperature thermostat, 1927, 252.
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- Maby, J. C.** Further notes on the identification of woods and charcoals, 1933, 219.
 — Sandalwood and its substitutes, 1932, 515.
 — The identification of wood and wood charcoal fragments, 1932, 2.
- McAlister, E. D.** See Williams, R. J.
- McAlpine, R. K., and Soule, B. A.** *Qualitative Chemical Analysis* (Review), 1934, 374.
- Macara, T.** Review of Eynon's *Starch: Its Chemistry, Technology and Uses*, 1929, 373.
 — Review of Walton's *A Comprehensive Survey of Starch Chemistry*. Vol. I, 1928, 561.
 — The composition of fruits as used for jam manufacture in Great Britain, 1931, 35.
 — The composition of raspberries, 1935, 592.
 — The determination of soluble solids in jams, etc., 1931, 391.
 — See also Hinton, C. L.
- McArdle, D. W.** The Use of Solvents in Synthetic Organic Chemistry (Review), 1926, 274.
- McCalla, A. G.** See Kirk, P. L.
- McCance, R. A.** Colorimetric determination of rhamnose, 1930, 285.
- McCance, R. A., and Shipp, H. L.** Colorimetric determination of sodium, 1931, 552.
 — Micro-determination of sodium in biological materials, 1932, 129.
 — The chemistry of flesh foods and their losses on cooking, 1934, 548.
- McCandless, J. M., and Burton, J. I.** Sources of error in the determination of phosphoric acid, 1927, 305.
- McCandlish, H. C.** See Kay, R. R.
- McCann, D. C.** See Olcott, H. S.
- McCarley, A. F.** Determination of phenol and its homologues in disinfecting fluids, 1932, 181.
 — Some new colour reactions with certain oils and fats, 1931, 104.
 — The antimony trichloride test for vitamin A, 1932, 709.
- McCarrison, R.** White and brown bread, 1930, 56.
- McCarrison, R., Newcomb, C., Viswanath, B., and Norris, R. V.** Determination of iodine in soil, salt and water-concentrates, 1928, 59.
- McCay, C. M.** Phosphorus distribution, sugar and haemoglobin in the blood of fish, eels and turtles, 1931, 263.
- McCay, L. W.** Determination of molybdenum as silver molybdate, 1935, 198.
 — Separation of arsenic from antimony, 1928, 237.
- Macchia, O.** Detection and determination of barium, calcium and strontium, 1928, 353.
- McClellan, W. S.** Quantitative determination of dihydroxyacetone in blood and urine, 1928, 230.
- McClendon, J. F.** *Manual of Biochemistry* (Review), 1934, 851.
- McClendon, J. F., and Holdridge, C. E.** Iodine in cabbage, 1935, 559.
- McClendon, J. F., and Remington, R. E.** Determination of traces of iodine in vegetables, 1929, 239.
- McClendon, J. F., Barrett, E., and Canniff, T.** Iodine-content of potatoes, 1934, 839.
- McClendon, J. F., Russell, S., and Tracy, E.** Determination of hydrogen ions in blood with the aid of the Duboscq colorimeter, 1927, 42.
- McClosky, W. T., and Munch, J. C.** Bio-assay of commercial pituitary powders, 1929, 298.
- McCluskey, K. L.** Fading of tropaeolin OO in the titration of organic acids in urine, 1931, 195.
- McCollum, E. V.** See Adams, G.
 — See also Becker, J. E.
 — See also Estill, H. W.
 — See also Itter, S.
 — See also Kik, M. C.
 — See also Kruse, H. D.
 — See also Tange, U.
- McCullum, E. V., and Kruse, H. D.** Observations on the extraction of vitamin B from wheat germ, 1926, 360.
- McConnell, F. J.** See Brady, F. L.
 — See also Wildon, B. H.

- McCord, C. P.** Toxicity of methyl alcohol following skin absorption and inhalation, 1931, 759.
- MacCorquodale, D. W., Steenbock, H., and Atkins, H.** Preparation and antirachitic activation of some derivatives of ergosterol and cholesterol, 1930, 587.
- McCrae, J.** A modification of the Gillespie approximate method of determining hydrogen ion concentration, 1926, 287.
- McCrosky, C. R.** See Gemmill, R.
- McCrumb, F. R., and Kenny, W. R.** Use of cresol red in acid solutions, 1929, 489.
- McCullagh, D. E.** New method for the determination of iodine (in blood and organic substances), 1934, 838.
- McDonald, F. G.** Stability of carotene in ethyl esters of fatty acids and in liver and vegetable oils, 1934, 120.
— See also Bills, C. E.
- McDonald, F. G., and Bills, C. E.** Isomerization of ergosterol by means of fuller's earth, 1930, 711.
- Macdougall, F. H.** Thermodynamics and Chemistry (Review), 1927, 560.
- McEver, T. G.** See Poe, C. F.
- Macfarlane, M. G.** See Harden, A.
- McFarlane, W. D.** Application of sodium diethylthiocarbamate reaction to the microcolorimetric determination of copper in organic substances, 1932, 802.
- McFarlane, W. D., and Fulmer, H. L.** Colorimetric determination of the tyrosine and tryptophan content of various crude protein concentrates, 1931, 264.
- McGill, W. J.** See Sullivan, F. W.
- McGregor, P., and Fryd, C. F. M.** Determination of artificial silk in mixtures of artificial silk and cotton waste, 1933, 301.
- McGutchen, D. T.** See Evenson, O. L.
- Mach, F., and Lepper, W.** Determination of thallium, 1926, 367.
- Maché, A.** Determination of ozone, 1935, 496.
- Macheboeuf, M.** See Bertrand, G.
- McHenry, E. W., and Graham, M.** Observations on the estimation of ascorbic acid by titration, 1935, 835.
- Machon, H.** Die Bestimmung und Bedeutung der Wasserstoffionen Konzentration in der Gerberei (Review), 1931, 844.
- Macht, D. L., and Anderson, W. T., Junr.** Effect of polarised light on the pharmacological properties of some drugs, 1927, 602.
- Machtou, R.** Assay of pyrimidin by the silver cyanide method, 1931, 326.
- McHugh, G. P.** A Practical Chemistry, 1934, 584.
— A Practical Chemistry for Higher School Certificates and Intermediate Students, 1934, 728.
- McIlroy, R. J.** The detection of copper by means of *p*-phenylenediamine, 1934, 103.
- McInerney, T. J.** See Sharp, P. F.
- MacInnes, D. A., and Jones, P. T.** Method for differential potentiometric titration, 1927, 50.
- McIntosh, D. H.** Determination of metallic lead in metallurgical products and pigments, 1927, 104.
- Mack, E.** See Church, W. H.
- MacKay, E. M.** Mode of distribution of glucose in human blood, 1932, 729.
- McKee, R. H., and Johnston, W. S.** Removal of fluorides from drinking water, 1934, 768.
- McKee, R. H., and Parker, H. H.** Determination of nitrogen bases in petroleum oils, 1928, 172.
- McKenzie, B. F.** See Kendall, E. C.
- Mackenzie, J. E.** See Dobbin, L.
- Mackenzie, K.** Biochemistry of aluminium. I, Excretion and absorption of aluminium in the pig, 1931, 54. II, Excretion and absorption of aluminium in the rat, 1931, 470.
- McKeown, A.** See Griffith, R. O.
- Mackey, M. A.** See Greenberg, D. M.
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- MacKinney, G. L.** Leaf carotenes, 1935, 773.
— Properties of carotenes from certain roots and leaves at various stages of development, 1935, 195.
- McKinney, R. S.** See Jamieson, G. S.
- McKinnis, R. B.** See Bowman, J. R.
- McKinnis, E. B., and King, C. G.** Nature of vitamin C. Study of its electrical transference, 1930, 592.
- McLachlan, T.** Analysis of turpentine liniment, 1935, 685.
— Detection of formaldehyde in milk, 1935, 752.
— Drinking waters for cattle, 1930, 372.
— Report of the Public Analyst for Fulham for the year 1934, 1935, 753.
— Review of Cameron's *A Textbook of Biochemistry for Students of Medicine and Science*, 1928, 358.
— Review of Cole's *Practical Physiological Chemistry*, 8th Ed., 1929, 70.
— Review of Lewis and King's *The Making of a Chemical*, 1927, 662.
— Review of *Reports of the Progress of Applied Chemistry*. Vol. XII, 1928, 410.
— Syrup of senna and the dispensing of syrups in wet bottles, 1932, 46.
— The analysis of starch sugar degradation products by selective fermentation, 1928, 583.
— See also Jones, J. M.
- McLachlan, T., and Mathews, D. M.** The determination of elemental sulphur, 1935, 610.
- McLachlan, T., and Middleton, A. W.** Sodium flame for polarimetric work, 1927, 639.
- McLachlan, T., and Stern, M. I.** The analysis of green teas, 1934, 385.
- MacLagan, N. F.** See Dickens, F.
- McLang, J.** Aseptosol: A new antiseptic phenol from betel leaves, 1926, 356.
- McLaughlin, L.** Relation of vitamin A content to size of leaves, 1929, 764.
- Maclaurin, J. S.** Report of the Dominion Analyst for New Zealand for 1924, 1926, 630; for 1925, 1927, 347; for 1927, 1929, 289; for 1928, 1930, 514.
- MacLean, H.** Carbohydrate metabolism in health and disease, 1926, 429.
- MacLean, J. H., and Lynch, G. Roche.** Review of Viganò's *Practical Serology*, 1928, 562.
- McLean, W.** Carbon-nitrogen ratio of soil organic matter, 1930, 712.
— See also Robinson, G. W.
- McLellan, B. G.** Review of Jensen's *Chemistry, Flavouring and Manufacture of Chocolate Confectionery and Cocoa*, 1931, 768.

- MacLennan, K.** See Morgan, R. S.
- MacLeod, F. L., and Others.** Vitamin A content of sweet potato, 1935, 487.
- Macmahon, P. S., and Srivastava, L. N.** Some cryoscopic measurements of Indian milk, 1935, 307.
- McMillan, A., and Easton, W.** Electrometric titrations. Chloramine-T as titrating reagent, 1928, 111.
- McMurray, R. L.** Constituents of the petroleum spirit extract of blossoms of yarrow, 1934, 187.
— Volatile oil of yarrow (*Achillea millefolium* Linne), 1935, 258.
— See also Norin, G.
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- McNabb, W. M.** Determination of arsenic pentoxide as magnesium ammonium arsenate, 1927, 494.
— See also Deischer, C. K.
- McNair, L. C., and Gull, H. C.** A simple apparatus for the rapid determination of combustible vapours in the atmosphere, 1932, 159.
- MacNair, W. A.** See Bills, C. E.
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— See also Hoff, R. W.
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- McSwiney, B. A.** Composition of sweat, 1934, 496.
— See also Vass, C. C. N.
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- Madsen, E. H.** Carbon tetrachloride in chloroform, 1935, 329.
- Magee, H. E., and Glennie, A. E.** Studies on the effect of heat on milk. IV, The iodine content, 1928, 290.
- Mager, H.** Water Diviners and their Methods, 1932, 282.
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- Magnette, M.** Changes undergone by alkaloids of the tropine group in putrefying organic media, 1926, 419.
- Magnin, J.** Use of lead chloride for clearing organic liquids in toxicological research for alkaloids, 1927, 356.
- Magnin, J., Ubeda, J. S., and Golod, B.** Detection of alkaloids in old viscera, 1927, 357.
- Mahau, —.** Method of identification and determination of the value of rhubarbs, based on fluorescence, 1929, 478.
- Mahr, C.** Colorimetric determination of bismuth, 1933, 714.
— Volumetric determination of bismuth, 1933, 638.
- Maile, W. C. D., and Scott, K. J. L.** "Digestibility" of common foodstuffs as determined by radiography, 1935, 192.
- Main, H.** Determination of reducing sugars in raw sugars, etc., by the pot method, 1932, 528.
- Majdel, J.** General method for the separation and determination of manganese, 1930, 649.
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— Precipitation of copper by thiosulphate, 1930, 66.
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- Makgill, R. H.** See Haldane, J. S.
- Makishima, S.** See Kameyama, N.
- Makris, K. G.** Colorimetric determination of traces of ammonia, 1931, 617.
— New sensitive reactions of ammonia, 1931, 341.
- Makris, K. G.** Sensitive test for ammonia, 1930, 715.
- Malaprade, M. L.** Determination of formaldehyde and sulphites by acidimetry, 1934, 361.
— Oxidation of certain poly-alcohols by periodic acid. Applications, 1928, 299.
— Potentiometric titration of some oxidising acids, 1926, 271.
— See also Travers, A.
- Malhotra, R. C.** Composition of kapok seed oil, 1932, 785.
- Maljaroff, K. L.** Micro-determination and separation of calcium and magnesium, 1932, 64.
- Maljaroff, K. L., and Matskiewitsch, W. B.** Colorimetric determination of iodine by the chloroform method, 1934, 135.
- Mallannah, S.** The identification of seminal stains, 1927, 399.
- Mallen, C. E.** The behaviour of phenolphthalein and methyl orange in the oxidation of sugars by alkaline iodine, 1932, 244.
- Mallinckrodt, E., Junr.** Reactions of anaesthetic ethers with potassium hydroxide and with mercury, and the test for foreign odours, 1927, 718.
- Mallinson, G. A.** Toxic action of saffras oil and safrol on animals, 1926, 46.
- Mallory, G. E.** See Valaer, P.
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- Malvea, B. B., and Withrow, J. R.** Use of the antimony electrode in the electrometric determination of magnesium, 1932, 539.
- Mameli, E.** Action of certain organic substances on alcoholic fermentation, 1927, 99.
- Mamoli, L.** Colorimetric determination of tryptophan in the haemolymph of the silkworm, 1934, 50.
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- Manjunath, B. L., and Siddappa, S.** Daturic acid from the seeds of *Datura stramonium* Linn., 1935, 767.
- Manley, C. H.** A rapid method for the sorting of butters and margarines, 1927, 67.
- Magnesium ammonium phosphate in canned salmon, 1933, 337.
- Note on fish pastes, 1935, 76.
- Occurrence of antimony and tin in foil-wrapped cheeses, 1930, 191.
- Report of the City Analyst for Leeds for the Third Quarter of 1928, 1929, 103; for the Second and Third Quarters of 1929, 1929, 739; for the year 1929, 1930, 751; for 1930, 1931, 808; for 1931, 1932, 714; for 1932, 1933, 471; for 1933, 1934, 539; for 1934, 1935, 685.
- The production of uniform stains in the Gutzeit test for arsenic, 1929, 30.
- Manley, C. H., and Sutton, R. W.** A standard for potted meat, 1930, 11.
- Manley, J.** Photomicrography of wool fibres, 1930, 469.
- Mann, D.** Dichloro-ethylene as a solvent, 1932, 586.
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- Manning, A. B., and Shepherd, F. M. E.** Determination of aromatic, unsaturated and naphthene hydrocarbons in light oils and motor spirits, 1930, 757.
- Manning, A. B., King, J. G., and Sinnatt, F. S.** "Unsaturated hydrocarbons" in the gases from the carbonisation of coal, 1928, 224.
- Manning, J.** Preparation of nickel membranes for ultra-filtration, 1926, 428.
- Mansfield, H.** Composition of fresh fruits and fruit pulp, 1927, 351.
- Mansfield, W.** Microscopic Pharmacognosy (Review), 1930, 531.
- Mantell, C. L.** Industrial Carbon (Review), 1929, 622.
- Manteufel, P.** Serological Methods in the Investigation of Foodstuffs (Review), 1927, 308.
- Manville, I. A.** Variations in fat-soluble vitamin content of eggs preserved by different methods, 1926, 359.
- Marañon, J., and Cosme, L.** Nitrogen distribution and carbohydrate partition in Philippine rice bran, 1935, 827.
- Marasco, M.** Determination of acetone by means of hydroxylamine hydrochloride, 1926, 472.
- Marcac, A.** Report of the Government Laboratory of Siam, at Bangkok, for the two years ending March, 1924, 1926, 463; ending March, 1926, 1927, 32; ending March, 1928, 1929, 475; ending March, 1930, 1932, 312; ending March, 1932, 1934, 753.
- Marcelet, H.** Capillary index of certain vegetable oils, 1934, 576.
- Examination of cod-liver oil in Wood's light, 1928, 165.
- Head oils of the dolphin (*Delphinus delphis* Linn.), 1926, 473.
- New fatty acid from a fish oil, 1928, 499.
- Marcelet, H., and Debono, H.** Spectrographic analysis of the various fluorescences of olive oil under ultra-violet radiation, 1930, 600.
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- Marcille, R.** Accidental green coloration in olive oil. (Test for copper in water), 1928, 103.
- Analysis of oils in cans containing preserved fish, 1934, 47.
- Determination of the insoluble bromide values of oils (in cans of preserved fish), 1934, 46.
- Fachini's reaction for the detection of olive residue oils, 1929, 346.
- Marcovitch, S.** The fluosilicates as insecticides, 1926, 420.
- Marcusson, J.** Determination of the asphalt content of mineral oils, 1927, 300.
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- Marceuw, W. v. d. D.** Colour reaction distinguishing between aniseed oil and star anise oil, 1926, 254.
- Simple and rapid reaction to distinguish aniseed oil from star anise oil, 1927, 300.
- Marezni, A. D.** See Folin, O.
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- Margaillan, M. L.** Oil of *Wrightia annamensis*, Dubard and Eberhardt; an oil resembling castor oil, 1931, 260.
- Margolic, E. T.** See Sandin, R. B.
- Margosches, B. M.** Chemical Analysis. Vol. XXVI (Review), 1929, 310.
- Margosches, B. M., and Frischer, M.** Reaction of chloramine with fats, 1927, 609.
- Maricq, L.** Potentiometric determination of alkaloids by means of potassium iodomercurate, 1930, 284; 1931, 120.
- Marie, C., and Berthelot, J.** Two sources of error in the electrolytic determination of nickel in the presence of iron, 1927, 48.
- Mark, H.** See Scheibe, G.
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- Markley, K. S., and Sando, C. E.** Progressive changes in the wax-like coating on the surface of the apple during growth and storage, 1931, 609.
- Markley, K. S., Hendricks, S. B., and Sando, C. E.** Constituents of the wax-like coating of the pear, *Pyrus communis* L., 1935, 767.
- Further studies on the wax-like coating of apples, 1933, 41.
- Marks, S., and Morrell, R. S.** Determination of the carbonyl and aldehyde content of organic compounds: Estimation of phenylhydrazine, 1931, 508. Erratum, 1931, 620.
- The determination of organic peroxides, 1929, 503.
- The determination of the hydroxyl content of organic compounds: Estimation of castor oil, 1931, 428.
- Markwell, W. A. N.** Assay of Ext. Cocae Liq. B.P.C. and Ext. Cocae, 1935, 419.
- Markwell, W. A. N., and Cross, A. E.** The examination of rubbed spearmint, 1935, 748.
- Marling, P. E.** See Thomas, C. A.
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- Marmasse, P.** See Lebeau, P.
- Marmoy, F. B.** See Lewis, A. H.
- Marrian, G. F.** See Baker, L. C.

- Marrion, P. M.**, and **G. F.** Micro-determination of hydroxyl groups, 1930, 598.
- Marrion, R. H.** Microscopical examination of leather. Optical properties of tanned fibres. I. Refractive index of vegetable-tanned leather fibres, 1935, 434.
— Review of Wheeler's *The Manufacture of Artificial Silk*, 1931, 213.
— See also Lloyd, D. Jordan.
- Marris, N. A.** Identification of glass splinters, 1934, 686.
- Marrison, L. W.** Detection of nitrous "oxides" in sulphuric acid, 1932, 409.
— New test for phosphate and arsenate, 1935, 784.
- Marsh, C. T. N.** See Kerr, R. D.
- Marsh, F.**, and **Henderson, J.** Occurrence of the tetanus bacillus in canned peas, 1929, 536.
- Marsh, G. L.** See Joslyn, M. A.
- Marsh, L. G.** See Wyant, L. D.
- Marshall, A.** Explosives. Vol. III, 2nd Ed. (Review), 1933, 61.
- Marshall, A. L.**, and **Knudson, A.** Formation of vitamin D by monochromatic light, 1930, 593.
- Marshall, F. F.** Detection and determination of chestnut wood extract in a mixture of other tanning extracts, 1930, 64.
- Marshall, P. G.** See Kay, H. D.
- Marshall, S. C.** See Seaber, W. M.
- Marshall, S. C.**, and **Salamon, M. S.** Lime pip oil, 1926, 237.
- Marshall, W.** Mountants for biological tissues, 1930, 416.
- Marsson, V.**, and **Haase, L. W.** Precipitation of lead by *o*-oxyquinoline, 1929, 122.
- Marti, W. C.** See Martinek, M. J.
- Martin**, —. See Beagall, —.
- Martin, C. J.** See Walker, M.
- Martin, F. W.** Infra-red rays in criminal investigation, 1933, 644.
— The application of filtered ultra-violet rays in the investigation of poisoning cases, 1934, 531.
- Martin, G.** Chemical Engineering and Thermodynamics applied to the Cement Rotary Kiln, 1932, 602; 1933, 126.
- Martin, J. T.**, and **Tattersfield, F.** Evaluation of pyrethrum flowers, 1931, 189.
- Martin, L. C.**, and **Johnson, B. K.** Practical Microscopy (Review), 1932, 203.
- Martindale, R.** See May, C. E.
- Martindale, W. H.** The Extra Pharmacopoeia. Vol. I, 20th Ed. (Review), 1933, 309.
- Martindale, W. H.**, and **Westcott, W. W.** The Extra Pharmacopoeia, 19th Ed. Vol. I (Review), 1928, 513; Vol. II, 1930, 229.
- Martinek, M. J.**, and **Marti, W. C.** Detection and determination of methyl chloride in air and foods, 1932, 122.
- Martini, A.** Detection of nickel in the cells of plants, 1930, 456.
— New highly sensitive microchemical reactions for cadmium salts, 1927, 493.
— New metallic pyrocatechol compounds and their use in microchemical analysis, 1926, 646.
— New microchemical reaction for cocaine, 1933, 57.
— New microchemical test for molybdenum, vanadium and tungsten, 1932, 741.
- Martini, A.** Sensitive reaction for caffeine applicable to vegetable tissues, 1933, 56.
- Matlatt, A. L.** See Clow, B.
- Martley, F. C.** The use of the blood-grouping reactions in forensic investigations, 1928, 14.
- Marvel, C. S.** Editor of *Organic Synthesis*. Vol. V (Review), 1926, 380; Vol. XI, 1931, 842.
- Marvin, G. E.**, **Peterson, W. H.**, **Fred, E. B.**, and **Wilson, H. F.** Yeasts found in fermenting honey, 1931, 760.
- Mashino, M.** Soya-bean proteins, 1935, 716.
- Mason, C. W.** See Chamot, E. M.
- Mason, E.** Iodine survey of New Zealand live stock, 1934, 188.
- Mason, H. L.** See Kendall, E. C.
- Mason, H. M.** The estimation of the fineness of grinding of chocolate by microscopical and tasting methods, 1933, 440.
- Mason, H. M.**, and **Walsh, G.** Note on the oxidation of sulphites by air, 1928, 142.
— Note on the titration of dilute sulphite solutions with standard iodine solutions, 1928, 144.
- Mason, W. P.** Examination of Water, Chemical and Bacteriological, 6th Ed. (Review), 1932, 277.
- Massatsch, C.** Determination of chlorogenic acid in roasted coffee, 1934, 188.
- Massengale, O. N.** See Bills, C. E.
- Masson, I.** Three Centuries of Chemistry. Phases in the growth of a Science (Review), 1926, 325.
- Massy, R.** Polarimetric examination of oil of cade, 1926, 466.
— See also Barth, L.
- Masters, H.** See Tinkler, C. K. •
- Math, W.**, and **Shanks, W. J.** Detection of diamines in leather, 1934, 517.
- Mathews, D. M.** See McLachlan, T.
- Mathey, S.** See Meyer, A.
- Mathiesen, E.** See Lunde, G.
- Mathis**, —. See Volmar.
- Matignon, C.** See Copaux, H.
- Matignon, C.**, **Mouren, H.**, and **Dodé, M.** Determination of butanediol-2,3, 1934, 642.
- Matlack, M. B.** Pigments of pink grape fruits, *Citrus grandis* (L., Osbeck), 1935, 622.
- Matlack, M. B.**, and **Sando, C. E.** Colouring matter in American red and purple tomatoes, 1934, 285.
- Matskiewitsch, W. B.** See Maljaroff, K. L.
- Matthews, F.** See Crocker, J. C.
- Matthews, G. C.** Composition of a counterfeit coin, 1927, 639.
— Review of Ross-Mackenzie's *A Standard Manual of Brewing and Malting and Laboratory Companion*, 1927, 370.
- Matthews, J. W.** Review of Feigl's *Qualitative Analyse mit Hilfe von Tüpfelreaktionen*, 1935, 205.
— Review of King and Fromherz's *German-English Chemical Terminology*, 1934, 782.
— Review of Murray's *The Laboratory: Its Place in the Modern World*, 1934, 655.
— Review of Vortmann and Lieber's *Qualitative Chemische Analyse nach dem Schwefelnatrium-gang*, 1934, 581.

- Matthews, N. W.** Detection and determination of sucrose by the ammonium molybdate method, **1929**, 43.
- Matthews, R.** Cold test of fatty oils, **1929**, 435.
- Mattick, A. T. R.** "Apparent ropiness" (thread formation) in milk due to surface influence, **1926**, 527.
- Phenols in sterilised milk, **1930**, 37.
- Review of Orskov-Jensen's Dairy Bacteriology, 2nd Ed., **1931**, 775.
- See also Proctor, I. F.
- Mattick, E. C. V.** Chemical composition of the milk of cows receiving cod-liver oil, **1928**, 295.
- Mattick, E. C. V., and Hallett, H. S.** Effect of heat on milk. (a) On the coagulability by rennet, and (b) on the nitrogen, phosphorus and calcium contents, **1929**, 557.
- Mattikow, M.** See Thomas, A. W.
- Mattill, H. A.** Anti-oxidants and the autoxidation of fats, **1931**, 200.
- See also Bradway, E. M.
- See also Olcott, E. S.
- See also Oleovich, H. S.
- Mattingley, F.** See Wilson, H. F.
- Mattox, W. J.** See Tropsch, H.
- Matwejev, N.** See Wassiljeff, A.
- Maudsley, F.** Appointed Public Analyst for County Borough of Burnley, **1930**, 383; Agricultural Analyst for County Borough of Burnley, **1930**, 566.
- Maulbetsch, A.** See Wenger, P.
- Maurier, M. E.** Les Plantes à Parfums des Colonies Françaises (Review), **1929**, 129.
- Maunsell, A. E.** See Hughes, E. B.
- Maxim, M.** Detection and determination of dichloro-ethyl sulphide by combustion, **1932**, 586.
- Maxted, E. B.** Catalysis and its Industrial Applications (Review), **1933**, 430. Erratum, **1933**, 430.
- Maxymowicz, W.** See Brukl, A.
- See also Moser, L.
- May, C. E., Martindale, R., and Boyd, W. F.** Isolation and detection of bilirubin, **1934**, 291.
- May, P.** Determination of moisture in cloves, **1926**, 253.
- Review of Fox and Bowles' *The Analysis of Pigments, Paints and Varnishes*, **1927**, 110.
- Review of Heaton's *Volatile Solvents and Thinners*, **1926**, 379.
- The determination of sulphur dioxide in dried fruit, **1927**, 271, 526. Erratum, **1927**, 337.
- May, R. M.** See Le Guyon, R. F.
- Mayer, A. E., and Eggert, C.** Iron and copper in liver and liver extracts, **1933**, 101.
- Mayer, F.** See Kickton, A.
- See also Lendrich, K.
- See also Nottbohm, F. E.
- Mayer, O.** "Carbonate number" in water analysis, **1931**, 766.
- Mayerson, H. S.** Standardisation of photochemical methods for the measurement of solar ultra-violet radiation, **1935**, 723.
- Mayoroff, S. N.** Variations in the pH value during the souring of milk, **1935**, 556.
- Mayr, C.** Precipitation of cobalt and palladium by nitro- β -naphthol, **1934**, 846.
- Mayr, C., and Feigl, F.** Determination of cobalt by means of nitrosonaphthol, **1932**, 739.
- Mayr, F.** See Diemair, W.
- Mayrhofer, A.** Immersion liquids for refractive index determinations, **1932**, 65.
- Mayzner, M.** See Kon, S. K.
- Mease, R. T.** Analysis of weighted silk, **1933**, 175.
- Determination of sulphur and sulphate in wool, **1935**, 271.
- Médaille, A.** See Canals, E.
- Mederl, J. B., Trantz, O. R., and Saschek, W. J.** Application of the dilution method to micro-analysis, **1930**, 771.
- Medlock, O. C.** See Dye, M.
- Mees, R. T. A.** Colour reactions of liver oil, **1932**, 121.
- Determination of honey in honey cake, **1931**, 108.
- See also Van Dijk, J. A.
- Meesemaeker, R.** Colour reaction of ergosterol: Differentiation of ergosterol and irradiated ergosterol, **1930**, 404.
- Meesemaeker, R., and Boivin, J.** Determination of essential oil of mustard in black mustard, **1930**, 584.
- Meesemaeker, R., and Griffon, H.** Mechanism of the Liebermann and Burchard reaction. Application to the differentiation of animal from vegetable sterols, **1930**, 588.
- Mehlitz, A., and Maass, H.** Determination of the pectolytic power of filtration enzymes, **1935**, 834.
- Meier, F. W.** See Bucherer, H. T.
- Meier, F. W., and Fleischmann, O.** Determination of silica by means of perchloric acid, **1932**, 477.
- Meijer, T. M.** Determination of hydroxyl groups in alcohols and phenols by benzoylation in tetrahydronaphthalene solution at high temperatures, **1934**, 362.
- Meillère, G.** Determination of chloral in syrup of chloral, **1930**, 284.
- Meissner, H.** New method for the detection of tin, **1930**, 465.
- Melaven, A. D.** Electrolytic cell for use with the mercury cathode, **1930**, 416.
- Melis, B.** Chemical treatment of lemon residues. Determination of pectins, **1930**, 199.
- Mellanby, E.** See Green, H. N.
- Mellanby, E., Surie, E., and Harrison, D. C.** Vitamin D in ergot of rye, **1929**, 766.
- Mellanoff, I. S.** Digitonin, its properties, isolation and quantitative determination, **1927**, 550.
- Oil from seeds of *Digitalis purpurea*, **1927**, 718.
- Mellet, R., and Bischoff, M. A.** Chemical reactions and volumetric titrations in Wood's light, **1926**, 480.
- Deciphering chemically bleached writing by means of dyes, **1926**, 100.
- Melley, A.** See Knapp, A. W.
- Melling, S. E.** Appointed Public Analyst for Borough of Accrington, **1929**, 285.
- Lemon Cheese: A defective certificate (Legal Notes), **1926**, 243.
- Mellon, M. G.** See Ferner, G. W.
- See also Heck, J. E.
- See also Swank, H. W.
- Mellon, M. G., and Swim, F. R.** Potentiometric titration of boric acid in the presence of certain inorganic salts, **1928**, 178.

- Mellor, J. W.** A Comprehensive Treatise on Inorganic and Theoretical Chemistry. Vol. VI (Review), 1926, 113; Vol. VII, 1927, 309; Vol. VIII, 1928, 511; Vol. IX, 1929, 377; Vol. X, 1930, 773; Vol. XI, 1931, 838; Vol. XII, 1933, 251; Vol. XIII, 1934, 852.
— Elementary Inorganic Chemistry (Review), 1930, 662.
— Intermediate Inorganic Chemistry (Review), 1930, 417.
- Melnikow, N. N.** Determination of copper in organic compounds, 1935, 53.
— See also Nametkin, S. S.
- Meloche, V. W.** See Batchelder, G.
— See also Titus, L.
- Memmler, K.** Editor of *The Science of Rubber* (Review), 1935, 347.
- Memmler, K., and Others.** Handbuch der Kautschuk-Wissenschaft (Review), 1931, 71.
- Mendel, L. B.** See Goddard, V. R.
- Mendelsohn, J.** Methods for detecting the oxidation of coal, 1933, 566.
- Mendelssohn, O. A.** Gelatin in cream, 1930, 567.
- Mennell, H.** Test for mercerised cotton, 1926, 422.
- Meno, I. S., Yamashita, M., and Ota, Y.** Vitamin A content of the unsaponifiable matter of liver oils, 1929, 54.
- Mercer, F. N.** See Howe, J. L.
- Merjanian, A.** Vitamin content of grapes and grape wines, 1927, 96.
- Merl, T.** Food Tests. I, Possibility of distinguishing between malt coffee and grain coffee by the maltol reaction. II, Blood sausage with artificially coloured skin, 1927, 93.
— Maltol and its colorimetric determination in malt coffee, 1930, 760.
- Merres, E., and Turneau, R.** Arsenic, lead and chromium in kindergarten materials, 1933, 296.
- Merrill, H. B., and Henrich, R. G.** Determination of chromium, iron and aluminium in chrome calf leathers, 1930, 647.
- Merrill, H. B., Niedercorn, J. G., and Quarck, R.** Determination of sulphate groups in chrome leather, 1928, 454.
- Merry, E. W.** Absorption of oxygen by tanning materials, 1932, 473.
- Merry, J.** See Gordon, P. F.
- Messe, W.** See Müller, E.
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- Metcalfe, C. R.** Structures of some sandalwoods and their substitutes, and other little-known scented woods, 1935, 635.
- Metzner, P.** Simple fluorescence microscopy and fluorescence photomicrography, 1932, 130.
- Meunier, L., and Bonnet, A.** Fluorescence of fisetin, 1926, 54.
- Meunier, L., and Jamet, A.** Fluorescence of acetone extracts of tanning materials, 1926, 481.
- Meunier, P.** New method for the determination of small quantities of aluminium. Application to vegetable substances, 1935, 119.
- Meurice, R.** Detection of cadmium in presence of copper, 1926, 367. .
- Meurice, R.** Volumetric determination of potassium, 1926, 308.
- Meyer, A., and Mathey, S.** Volumetric determination of acetone, 1930, 714.
- Meyer, C. R., and Hetler, R. A.** Distribution of vitamin A in some maize milling products, 1930, 149.
— Vitamin A content of oats, 1931, 470.
- Meyer, H.** Nachweis und Bestimmung Organischer Verbindungen (Review), 1933, 572.
— New derivatives of *p*-phenylenediamine and their value as hair-dyes, 1929, 675.
— New reaction for dyestuffs containing copper in hair and its use in the identification of dye in hair, 1932, 333.
- Meyer, J.** Detection of flour from denatured wheats. Identification of the colouring matter, 1934, 492.
— See also Sartory, A. and R.
- Meyer, J., and Pawletta, A.** Colorimetric determination of vanadium, 1926, 595.
- Meyer, R. J.** See Baxter, C. P.
- Meyer, T.** Solidification points of edible fats, 1927, 236.
- Meyerfeld, J.** Detection of sodium in presence of potassium, 1926, 62.
- Mezger, O., Jesser, H., and Volkmann, M.** Biological distinction of egg- and plant-lecithin by means of the complement-combination method, 1933, 167.
— Detection of vegetable lecithin in pastry, 1933, 555.
- Michaelis, H.** See Porter, F. R.
- Michaelis, L.** Diethylbarbiturate buffer, 1930, 464.
— Practical, Physical and Colloid Chemistry for Students of Medicine and Biology (Review), 1926, 221.
— Rosinduline as oxidation-reduction indicator, 1931, 415.
- Michaelis, L., and Yamaguchi, S.** Colorimetric method for the micro-analysis of cobalt, 1929, 620.
- Michel, A.** Determination of lactic acid in wines, 1932, 111.
- Michel, F.** Sensitive reaction for colophony or resin acids, 1930, 343.
- Middleton, A. R.** Reaction of "aluminon" with hydroxides of beryllium, rare earths, zirconium and thorium, 1926, 537.
- Middleton, A. W.** A rapid qualitative test for ethylene glycol and its application in the presence of glycerol, 1934, 522.
— See also McLachlan, T.
- Middleton, E. L.** Silicosis in industry in Britain, 1929, 757.
- Middleton, G.** A storage and delivery apparatus for antimony chloride solution and other corrosive reagents, 1931, 236.
— Determination of iodine in thyroid gland, thyroxine and other organic compounds, 1930, 285.
— Purity of ether for analytical use, 1929, 45.
— Review of *Untersuchungsmethoden für Arzneispezialitäten*, 1933, 428.
— The chemical assay of thyroid gland, 1932, 603.

- Middleton, G.** See also Bennett, R. R.
— See also Cocking, T. T.
- Middleton, G., and Hymas, F. C.** Tests for impurities in ether. I, Test for peroxides, 1928, 201. II, Tests for acetaldehyde, 1931, 238. III, Tests for acetone, 1931, 243.
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- Miermeister, A.** Behaviour of natural and artificial fruit essences towards sodium paratoluene-sulphonchloramide (Heyden chloramine), 1931, 51.
— See also Büttner, G.
— See also Grossfeld, J.
- Miermeister, A., and Battay, F.** Adulteration of sweet wine and its detection by determination of the lower fatty acids (butyric acid), 1931, 404.
- Miksch, R.** See Moser, L.
- Milgewska, W. L.** See Burkser, E.
- Millar, H. E.** See Withey, W. H.
- Miller, C. E.** See Rogers, T. H.
- Miller, E. G.** See Kelley, E. G.
- Miller, E. H.** See Sherman, H. C.
- Miller, E. R.** See Salmon, W. D.
- Miller, E. S.** Determination of the common carotenoids and analyses of carotene and leaf xanthophyll in thirteen plant tissues, 1935, 265.
- Miller, F. W.** See Swett, W. W.
- Miller, G. E.** See Light, R. F.
- Miller, J.** The determination of sulphur dioxide in dried fruit, 1927, 338.
— The effect of common salt on lime water used for egg preserving, 1927, 457.
- Miller, J. N., and Urbain, O. M.** Quantitative separation of phenol from the cresols and higher phenols, 1930, 213.
- Miller, L. F.** See Ogburn, S. C.
- Miller, R. E.** See Gershenfeld, L.
- Miller, W. L.** Determination of naphthalene in insecticides, 1934, 566.
- Millet, H.** Excretion of lead in urine, 1929, 610.
- Millner, I. J.** See Noller, C. R.
- Millner, T., and Kunos, F.** Determination of fluorine and phosphate in presence of silica and aluminium, 1933, 422.
— Determination of silicon and aluminium in presence of fluoride and ortho-phosphate, 1933, 54.
- Mills, E. V.** Determination of organic carbon in sewage, 1932, 56.
- Mills, F. E.** See Hyde, C. G.
- Mills, V. C.** See Englis, D. T.
- Milne, G.** Cobaltinitrite volumetric method of determining potassium in soil extracts, 1929, 558.
- Milner, E. W.** See Quinn, E. J.
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- Milton, R.** See Obermer, E.
- Minami, Y.** Analysis of Japanese allanite, 1929, 682.
- Minster, J. T.** Tests for the keeping quality of unsalted butter, 1932, 615.
- Mischl, V.** See Gordebard, H.
- Miskind, D.** See Tauber, H.
- Missenden, J.** Odour intensity and odour quality, 1926, 203.
- Mitchell, A. D.** Revision of Sutton's *A Systematic Handbook of Volumetric Analysis*, 12th Ed., 1935, 850.
- Mitchell, A. D., and Ward, A. M.** Modern Methods in Quantitative Chemical Analysis (Review), 1933, 63.
- Mitchell, C.** See Germuth, F. G.
- Mitchell, C. A.** A colorimetric method of determining oxalic acid, 1933, 279.
— A colour reaction of saponin with nitrates, 1926, 181.
— Alleged use of marking ink in ancient Egypt, 1927, 27.
— Analysis of red mercuric iodide ointment, 1926, 293.
— Editor of *Allen's Commercial Organic Analysis*, 5th Ed. Vol. IV, 1926, 320; Vol. V, 1927, 615; Vol. VI, 1928, 356; Vol. VII, 1930, 73; Vol. VIII, 1931, 68; Vol. IX, 1932, 544; Vol. X, 1934, 207.
— Editor of *Recent Advances in Analytical Chemistry*. Vol. I, Organic Chemistry, 1931, 279; Vol. II, Inorganic Chemistry, 1931, 839.
— Erasures and ultra-violet light, 1933, 532.
— Inks and ultra-violet light, 1930, 746.
— Obituary of Arthur Angell, 1930, 308.
— Obituary of R. Bodmer, 1926, 381.
— Obituary of C. T. Kingzett, 1935, 649.
— Obituary of J. W. Knights, 1929, 133.
— Obituary of A. J. Starey, 1935, 349.
— Review of Barker's *Basic German for Science Students*, 1933, 571.
— Review of Bolton's *Oils, Fats and Fatty Foods*, 1928, 363.
— Review of Browne's *The Life and Chemical Services of Frederick Accum*, 1926, 276.
— Review of Callow's *Food and Health*, 1928, 682.
— Review of Candy's *Some Newly-discovered Stanzas written by John Milton*, 1926, 222.
— Review of Carter and Pollard's *An Enquiry into the Nature of Certain Nineteenth Century Pamphlets*, 1934, 655.
— Review of Crane and Patterson's *A Guide to the Literature of Chemistry*, 1928, 468.
— Review of Danckwortt's *Lumineszenz-Analyse im Filtrierten Ultravioletten Licht*, 1935, 68.
— Review of Darling's *Inorganic Chemical Symbols and other Useful Chemical Data*, 2nd Ed., 1927, 502.
— Review of *Edible and Poisonous Fungi*, 1926, 604.
— Review of Else and Garrow's *The Detection of Crime*, 1934, 583.
— Review of Felstead's *Sir Richard Muir*, 1927, 375.
— Review of Gamble's *Chemistry and Manufacture of Writing and Printing Inks*, 1927, 313.
— Review of Garner's *Industrial Microscopy*, 1933, 313.
— Review of Glaister's *A Study of Hairs and Wools*, 1931, 696.
— Review of Hackh's *Chemical Dictionary*, 1930, 231.
— Review of Harvey's *Laundry Chemistry*, 1927, 62.
— Review of Kögel's *Die Unsichtbaren Strahlen im Dienste der Kriminalistik*, 1930, 422.

- Mitchell, C. A.** Review of Langton's *Blacks and Pitches*, 1926, 168.
 — Review of Lucas's *Antiques: Their Restoration and Preservation*, 2nd Ed., 1932, 744.
 — Review of Lucas's *Forensic Chemistry and Scientific Criminal Investigation*, 1932, 135.
 — Review of Margosches' *Die Iodzahl-schnell Methode und die Ueberiodzahl der Fette*, 1928, 115.
 — Review of Osborn's *Questioned Documents*, 2nd Ed., 1929, 501.
 — Review of Osborn's *The Problem of Proof*, 2nd Ed., 1927, 180.
 — Review of Parry's *Cyclopaedia of Perfumery*, 1926, 117.
 — Review of Parry's *Some Famous Medical Trials*, 1927, 665.
 — Review of Partridge's *Dictionary of Bacteriological Equivalents*, 1928, 66.
 — Review of Patterson's *A German-English Dictionary for Chemists*, 2nd Ed., 1935, 726.
 — Review of Radley and Grant's *Fluorescence Analysis in Ultra-Violet Light*, 1934, 209.
 — Review of Rawling's *Infra-red Photography*, 1933, 726; 2nd Ed., 1935, 790.
 — Review of Staudinger's *Anleitung zur Organischen Qualitativen Analyse*, 2nd Ed., 1931, 216.
 — Review of Tannenbaum's *Shakspeare Forgeries in the Revels Accounts*, 1929, 627.
 — Review of Tannins Section of Thorpe's *Dictionary of Applied Chemistry*, 1926, 376.
 — Review of Türkel's *Atlas der Bleistiftschrift*, 1930, 603.
 — Review of Türkel's *Fälschungen*, 1931, 141.
 — Scientific documentary evidence in criminal trials, 1932, 144.
 — Some aspects of the new regulations on food preservatives, 1926, 372.
 — The addition of ammonium salts to vinegar, 1931, 178.
 — The Scientific Detective and the Expert Witness (Review), 2nd Ed., 1931, 698.
 — The use of infra-red rays in the examination of inks and pigments, 1935, 454.
 — Vinegar: Its Manufacture and Examination (Review), 1927, 178.
 — See also Dyer, B.
 — See also Willcox, W. H.
- Mitchell, C. A., and Ward, T. J.** Sediments in ink and in writing, 1932, 760.
 — Sequence of strokes in writing, 1927, 580.
- Mitchell, D. M.** See Fearon, W. R.
- Mitchell, H. H.** Note on quantitative methods of measurement of the nutritive value of proteins, 1929, 47.
- Mitchell, H. H., and Carman, G. G.** Biological value of the nitrogen of mixtures of patent white flour and animal foods, 1926, 358.
- Mitchell, H. H., Beadles, J. R., and Keith, M. H.** The value of cocoa and chocolate as sources of protein in the diet, 1927, 95.
- Mitchell, H. H., Beadles, J. R., and Kruger, J. H.** Relation of the connective tissue content of meat to its protein value in nutrition, 1927, 483.
- Mitchell, H. H., Zimmerman, R. L., and Hamilton, T. S.** Determination of the amount of connective tissue in meat, 1927, 160.
- Mitchell, J. S.** Comparative composition and colour of commercial tomato juice, 1935, 415.
- Mitchell, L. A.** See Smith, E. R.
- Mitchell, L. C.** Composition of shell eggs, 1932, 522.
 — Decomposition of lecithin in eggs, 1932, 523.
 — Iodine value of paprika oil, 1927, 161.
- Mitchell, L. C., and Alfend, S.** Iodine value of Spanish paprika oil, 1927, 44.
 — Preparation of butter samples for analysis, 1926, 40.
- Mitchell, L. C., Alfend, S., and McNall, F. J.** Composition of whites, yolks and whole broken eggs from commercial egg-breaking establishments, 1933, 480.
- Mitchell, S.** Method for determining the solubility of sparingly soluble substances, 1926, 539.
- Mitchell, W. J.** Prediction of the extract of malt by Bishop's barley formula, 1932, 464.
 — See also Ford, J. S.
- Mitler, R. P., and Kirk, P. B.** Quantitative drop analysis. II, Determination of calcium, 1934, 64.
- Miyagi, S.** Brucine as an internal indicator in dichromate titrations, 1933, 496.
- Mlejnek, V. J.** Analysis of miscellaneous tanning materials. Committee Report, 1933, 714.
- Mobley, R. L.** See Owen, W. L.
- Moerke, G. A.** See Rising, M. M.
- Moeys, G. P. G., and Schoorl, N.** Properties of adipone, a cyclic sugar, 1934, 770.
- Moffitt, W. G.** A colorimetric method for the determination of chloroform, 1933, 2.
- Moggridge, R. C. G., and Ogston, A. G.** Potentiometric titration of solutions of vitamin B₁, 1935, 565.
- Möhlau, E.** Spontaneous ignition of beechwood charcoal dust, 1932, 675.
- Mohler, H., and Benz, H.** Colour reactions of almond and apricot-kernel oils, 1933, 764.
- Mohler, H., and Helberg, E.** Jaffé-Folin reaction of hydrolysed gelatin, 1934, 829.
- Mohler, H., Helberg, E., and Almasy, F.** Chemical and spectrophotometric detection of gelatin in soup-cubes, 1934, 180.
- Mohortič, H.** Occurrence of iodine in water-gas, 1926, 51.
- Mohr, W.** Determination of nicotine in tobacco and nicotine-containing parasiticides, 1933, 766.
- Moir, D. D., and Hinks, E.** The determination of total alkaloids in cocoa and of cocca-matter in flour confectionery, 1935, 439.
- Moir, G. M.** The determination of the milk proteins. I, The chemistry of the separation of casein, 1931, 2. II, The identity of the casein precipitate, 1931, 73. III, Proposed modified method for casein, 1931, 147. IV, The combined determination of albumin and globulin, 1931, 228.
 — Use of the quinhydrone electrode, 1931, 445.
- Moir, J. R.** Microscopical examination of flint surfaces, 1927, 367.
- Moitra, G. C.** See Bunce, E. H.
- Molterer, H.** See Pavelka, F.
- Momose, I.** See Sakuma, I.

- Monaghan, B. R., and Schmitt, F. O.** Effects of carotene and of vitamin *A* on the oxidation of linolic acid, **1932**, 663.
- Mond, Sir Robert, and Myers, O. H.** The Bucheum (Review), **1935**, 65.
- Money, C. P.** Report of the State's Analyst for Jersey for the year 1933, **1934**, 404; for 1934, **1935**, 405.
— See also Toms, F. W.
- Monguillon, P.** See Lemoigne, M.
- Monier-Williams, G. W.** Aluminium in food, **1935**, 822.
— Antimony in enamelled hollow-ware, **1934**, 489.
— "Blowing" of canned fruit due to chemical action, **1926**, 402.
— Determination of benzoic acid in foodstuffs, **1927**, 237, 572; Public Health Report, No. 39, **1927**, 153, 229.
— Determination of sucrose, lactose, and invert sugar in sweetened condensed milk. Public Health Report, No. 57, **1930**, 573.
— Polarimetric determination of sucrose in mixtures of milk and sucrose, **1928**, 569.
— The determination of sulphur dioxide in foods. Ministry of Health Report, No. 43, **1927**, 343, 415.
— The determination of the true freezing-point of milk, **1933**, 254.
— The effect on foods of fumigation with hydrogen cyanide. Public Health Report, No. 60, **1931**, 46.
— The nitrate test for the detection of added water in milk, **1931**, 397.
- Monk, H. E.** A case of chronic lead poisoning, **1933**, 397.
— Report of the City Analyst for Salford for the year 1929, **1930**, 686; for 1930, **1931**, 314; for 1931, **1932**, 652; for 1932, **1933**, 687; for 1934, **1935**, 819.
- Monnet, R.** Detection of quinine in urine by the erythroquinine reaction, **1933**, 628.
— Gravimetric and volumetric determination of quinidine, **1935**, 708.
— Identification of cinchona preparations by the erythroquin and thalleoquin reaction, **1935**, 482.
- Monro, A. D.** See Davies, C.
- Monroe, G. S.** See Faragher, W. F.
- Montignie, E.** Action of iodine on cholesterol, **1934**, 426.
— Action of selenious anhydride on sterols, **1932**, 328.
— Colour reaction of pyrrolic and indolic compounds, **1932**, 588.
— Colour reactions of sterols, **1932**, 588.
— Effect of nitric acid fumes on certain elements, **1935**, 427.
— Highly sensitive reagent for hydrazines and analogous compounds, **1932**, 330.
— Reaction of cholesterol with sulphuric, selenic and telluric acids, **1934**, 426.
— Reaction of the molybdenum ion, **1930**, 294.
— Reactions of mercuric iodide, **1935**, 339.
- Mookerjee, H. C.** See Chakravorty, P. N.
- Moon, H. H.** See Culpepper, C. W.
- Moore, A.** See Fischer, R.
- Moore, C. G., and Partridge, W.** Aids to the Analysis of Food and Drugs, 5th Ed. Revised by J. R. Nicholls (Review), **1935**, 646.
- Moore, C. N.** See Knudson, A.
- Moore, C. W.** See Allan, J.
- Moore, E. J.** Growth and nutrition of fungi, **1933**, 564.
- Moore, E. K., Highberger, J. H., Koppenhoefer, R., and O'Flaherty, F.** Determination of amines in tannery lime liquors, **1931**, 614.
- Moore, H.** See Gurwitsch, L.
- Moore, H. C., and White, R.** Detection and determination of nitrogen-bearing chemicals added to animal or vegetable nitrogenous manures, **1927**, 298.
- Moore, H. McD.** See Hepburn, J. S.
- Moore, J. M.** See Hughes, J. S.
- Moore, Q.** Testing of disinfectants by the Rideal-Walker method, **1927**, 98.
- Moore, R. B., and De Vries, T.** Activation of ergosterol with radium emanation, **1931**, 678.
- Moore, T.** Vitamin *A* and carotene. I, Association of vitamin *A* activity with carotene in the carrot root, **1929**, 765. II, Vitamin *A* activity of red palm oil carotene. III, Absence of vitamin *D* from carotene. IV, Effect of various dietary modifications upon vitamin *A* activity of carotene, **1930**, 288. V, Absence of the liver oil vitamin *A* from carotene. VI, Conversion of carotene into vitamin *A* *in vivo*, **1930**, 588. VIII, High potency vitamin *A* concentrates, **1932**, 260. IX, Conversion of carotene into vitamin *A* in the cow, **1932**, 395. X, The relative minimum doses of vitamin *A* and carotene, **1933**, 629.
— See also Booth, R. G.
— See also Dann, W. J.
— See also Harris, L. J.
— See also Willimott, S. G.
- Morales, R.** See Georgia, F. R.
- Moran, T.** Effect of low temperatures on hens' eggs, **1926**, 39.
— Post-mortem and refrigeration changes in meat, **1935**, 485.
- More, A.** Meniscus corrections involved in the calibration of graduated tubes, **1929**, 630.
— Review of Parkinson and Fielding's *The Microscopical Examination of Cattle Foods*, **1932**, 136.
— Review of Stott's *Volumetric Glassware*, **1929**, 497.
— Specification for amyl alcohol for use in the Gerber test, **1933**, 277.
— Sterols in butter, **1929**, 735.
- Moredod, R.** Study of wine from dried grapes, **1930**, 136.
- Mori, R.** See Karrer, P.
- Morgan, A. F.** Effect of heat upon the biological value of cereal proteins and casein, **1931**, 328.
— See also Joslyn, M. A.
— See also Smith, L. L. W.
- Morgan, A. F., and Field, A.** Effect of drying and of sulphur dioxide upon the antiscorbutic property of fruits, **1929**, 483.
— Vitamins in dried fruits. II, Effect of drying and of sulphur dioxide upon vitamin *A* content of fruits, **1930**, 643.

- Morgan, A. F., Field, A., and Nicholls, P. F.** Effect of drying and sulphuring on vitamin C content of prunes and apricots, **1931**, 329.
- Morgan, B. G. E.** See Coward, K. H.
- Morgan, B. G. E., and Coward, K. H.** Determination of vitamin A in butter, **1931**, 757.
- Morgan, G. T., and Pettet, A. E. J.** Use of arylcarbimides in identifying hydroxylic compounds, **1931**, 612.
- Morgan, J. C., and King, E. J.** Micro-gravimetric determination of silica in tissue, **1932**, 339.
- Morgan, M. F.** Microchemical soil tests, **1934**, 65.
- Morgan, R. H.** The effect of temperature on the sulphur dioxide content of corn syrup in mixtures of sugar and corn syrup, **1930**, 488.
— The effect of the rate of boiling on the residual sulphur dioxide content in mixtures of sugar and corn syrup; also the effect of bleaches containing sulphur dioxide, **1931**, 638.
- Morgan, R. S.** Interpretation of the colour match in the antimony trichloride test for vitamin A, **1932**, 534.
- Morgan, R. S., and MacLennan, K.** Fluorescence of some vitamin A-containing fats, **1929**, 250.
- Morgan, R. S., and Pritchard, H.** Vitamin potency and associated characteristics of average cod-liver oil, **1935**, 355.
- Morgan, W. A., and Woodroof, J. G.** The effect of waste pimento pepper on the colour of egg yolks, **1927**, 653.
- Morgan, W. P.** See McSweeney, C. J.
- Morgan, W. T. J.** See Elson, L. A.
- Morgulis, S., and Beber, M.** Effect of temperature on the catalase reaction, **1928**, 347.
- Moritz, A. R.** See Goldblatt, H.
- Morley, H. F.** Obituary of Samuel Rideal, **1930**, 2.
- Morrell, J. C.** See Egloff, G.
— See Faragher, W. F.
- Morrell, R. S.** The composition of linseed oil, **1932**, 377.
— See also Barry, T. H.
— See also Marks, L.
- Morrell, R. S., and Smyth, C. I.** Arsenic in printing inks, **1927**, 339.
- Morrell, R. S., and Wood, D. R.** The Chemistry of Drying Oils (Review), **1926**, 432.
- Morris, F.** See Tankard, A. R.
- Morris, S., Callaghan, E. B., and Dunlap, L.** Detection of cyanogen iodide in iodine, **1930**, 528.
- Morris, T. N.** Principles of Fruit Preservation (Review), **1933**, 507.
- Morris, V. N.** Determination of ethylene by absorption in a solution of silver nitrate, **1929**, 487.
- Morrison, D. B.** See Myers, V. C.
- Morrow, C. A.** Biochemical Laboratory Methods for Students of the Biological Sciences (Review), **1928**, 357.
— Biochemical Laboratory Methods, **1935**, 504.
- Morse, F. W.** Discoloration of canned cranberries, **1927**, 548.
— Iodine content of Cape Cod cranberries, **1928**, 659.
— Mineral constituents of cranberries, **1929**, 178.
- Morse, M.** See Schlutz, F. W.
- Morse, W.** New colour reactions for hydroxyproline and its use in distinguishing the scleroproteins, **1933**, 294.
- Morth, H.** See Pavelka, F.
- Mortimer, F. S.** Determination of methanol in presence of ethyl alcohol, **1927**, 482.
- Morton, C.** Automatic pH recorder, **1932**, 201, 342.
— Electrometric studies of complex-formation. II, Tartrates of bismuth, **1931**, 469.
- Morton, J. K., and Spencer, G. C.** Separation of formic acid in food products by distillation with xylene, **1926**, 415.
- Morton, R. A.** Radiation in Chemistry (Review), **1928**, 560.
— Review of Gerlach's *Clinical and Pathological Applications of Spectrum Analysis*, **1935**, 204.
— The Application of Absorption Spectra to the Study of Vitamins and Hormones (Review), **1935**, 724.
— See also Coward, K. H.
— See also Drummond, J. G.
— See also Duliere, W.
— See also Edisbury, J. R.
— See also Gillam, A. E.
— See also Heilbron, I. M.
- Morton, R. A., and Heilbron, I. M.** The absorption spectrum of vitamin A, **1928**, 503, 664.
— Vitamin A of butter, **1930**, 710.
- Morton, R. A., Heilbron, I. M., and Spring, F. S.** Absorption spectra in relation to vitamin A, **1930**, 401.
- Morton, R. A., Heilbron, I. M., and Thompson, A.** Spectrographic data concerning vitamin A and liver oils, **1931**, 470.
- Morvillez, F., and Defossez, —.** Alleged reaction of cherry-laurel distillate, **1927**, 239.
— Reduction of molybdc reagents by cherry-laurel water, **1932**, 581.
- Moser, L.** Simple micro-analytical separation of chlorine and bromine, **1930**, 413.
— Volumetric separation of selenium and tellurium, **1927**, 658.
- Moser, L., and Brandl, O.** Gravimetric methods for vanadium, **1929**, 368. See also list of Errata.
- Moser, L., and Brukl, A.** Analytical chemistry of gallium. Part 1, **1929**, 64; Part 2, **1929**, 367. See also list of Errata.
- Moser, L., and Graber, H.** Separation and determination of rhodium, **1932**, 195.
- Moser, L., and Hackhofer, H.** Separation and determination of iridium, **1932**, 194.
- Moser, L., and Hanika, F.** Absorption of carbon monoxide by cuprous chloride solution, **1926**, 266.
- Moser, L., and Lessing, R.** Separation of zirconium and hafnium from titanium, cerium and thorium, **1928**, 458.
- Moser, L., and List, F.** Analytical chemistry of beryllium. Part 2, **1929**, 366. See also list of Errata.
- Moser, L., and Maxymowicz, W.** Alleged determination of nickel as dioxide, **1926**, 52.
— Separation and determination of bismuth by hydrolysis, **1926**, 161.
- Moser, L., and Miksch, R.** Determination of tellurium, **1928**, 457.
- Moser, L., and Niessner, M.** Analytical chemistry of beryllium, **1928**, 401.

- Moser, L., and Reif, W.** New separation methods for thallium, 1930, 408.
- Moser, L., and Ritschel, E.** Separation of caesium, rubidium and potassium, 1928, 459.
- Moser, L., and Schöninger, W.** Determination of the titre of potassium permanganate solution by means of electrolytic iron, 1927, 250.
- Moser, L., and Schutt, K.** Separation of lithium from potassium, sodium and magnesium, 1929, 370. *See also* list of Errata.
- Moser, L., and Siegmann, F.** Analytical chemistry of indium (Part 1), 1930, 218.
- Moser, L., and Singer, J.** Analytical chemistry of beryllium, 1928, 401.
- Moskovitz, B.** *See* Kolthoff, I. M.
- Moss, H. V., Schilh, T. W., and Warning, W. G.** Tricalcium phosphate as a caking inhibitor in salt and sugar, 1933, 232.
- Moss, J. E.** *See* Knapp, A. W.
- Moss, J. E., and Knapp, A. W.** Measurement of the strength of sunlight, 1929, 334.
- Mossman, D. R.** *See* Beans, H. T.
- Mottern, H. H.** *See* Nelson, E. K.
- Mottern, H. H., and Keenan, G. L.** Identification of mesaconic acid, 1931, 549.
- Mottern, H. H., Nelson, E. M., and Walker, R.** Reducing value of plant juices containing vitamin C, as determined by 2:6-dichlorophenol indophenol, 1933, 48.
- Mottram, J. C.** *See* Cramer, W.
- Mottram, V. H.** *See* Clifford, W. M.
- Mougnard, P.** Determination of fluorine, 1931, 688.
- Mount, V.** Proof of fatal dose of strychnine, 1926, 531.
- Moureu, H.** *See* Maignon, C.
- Mousseron, M.** *See* Astrey, A.
- Mrak, E. M., and Le Roux, J. C.** Corrosion of bronzes by vinegar, 1932, 662.
- Mudge, C. S., and Lawler, B. M.** Effect of alkali solutions on bacteria found in unwashed milk bottles, 1928, 394.
- Muesmann, J.** *See* Weinstein, P.
- Mukerjee, B.** *See* Goswami, M.
- Mukerjee, B. C.** Determination of manganese in steel by the Proctor-Smith reaction in presence of phosphoric acid, 1927, 689.
- Mukherji, K. C.** *See* Budhalakoti, U. D.
- Mukhopadhyay, B. K., and Tampy, K. K.** A method for the quantitative determination of mechanical wood pulp, unbleached chemical pulp, and bleached chemical pulp fibres in paper and pulp, 1935, 529.
- Mulder, W.** Determination of nitrates in drinking water, 1931, 766.
- Mull, J. W.** *See* Myers, V. C.
- Müller, A.** *See* Berg, R.
- Müller, E.** A Laboratory Manual of Electro-Chemistry (Review), 1931, 621.
- Müller, E., and Messe, W.** Volumetric determination of chromium, 1927, 49.
- Müller, H.** *a-a'*-Dipyridyl as a reagent for the determination of ferrous and total iron in natural waters, 1934, 305.
- Müller, J.** *See* Täufel, K.
- Müller, J. H.** *See* Allison, E. R.
— *See also* Abrahams, H. J.
- Müller, J. H., and Eisner, A.** Determination of germanium, 1932, 408.
- Müller, J. H., and La Laude, W. A.** Separation of rhenium from molybdenum, 1933, 499.
- Müller, K., Vogt, E., and Raesch, O.** Method for the detection of fruit wine in grape wine, 1927, 599.
- Muller, R. H.** *See* Williams, A. S.
- Mulligan, M. J., Lovell, W. G., and Boyd, T. A.** Determination of gum in petrol, 1932, 796.
- Mullinix, R. D.** *See* Rea, H. E.
- Mumford, P. B.** Dermatitis due to the external use of methylated spirit, 1926, 47.
- Mummery, W. R.** The colorimetric determination of iron by the ferrocyanide method, 1926, 511.
- Mummery, W. R., and Bishop, F.** A solubility method of classifying acid caseins, 1930, 367.
- Münch, A. P. W., and Heukers, R. T.** Determination of naphthalene by means of picric acid, 1935, 634.
- Munch, J. C.** Bio-assay of capsicum, 1930, 638.
— Bio-assay of drugs, 1926, 42.
— Bio-assays. A Handbook of Quantitative Pharmacology (Review), 1931, 490.
— Refractometric determination of alcohols and esters in aqueous and in cottonseed oil solution, 1926, 314.
— *See also* Hartung, W. H.
— *See also* McClosky, W. T.
- Munch, J. C., and Gittinger, G. S.** Formula for calculating composition of mixtures of mydriatic alkaloids, 1929, 47.
- Munerati, O.** Age of wheat determined from temperature of germination, 1926, 261.
- Munro, R. J.** *See* Dugdale, C. M.
- Munse, H. E.** *See* Kifer, H. B.
- Munsey, V. E.** Determination of chlorine in the fat of flour, 1935, 764.
- Münster, W.** Micro-determination of iodine and a useful micro-desiccator, 1934, 438.
- Muntwyler, E.** *See* Myers, V. C.
- Muraour, H.** Colorimetric determination of nitrotoluene in nitrobenzene, 1927, 174.
- Murawleff, L., and Krassnowsky, O.** Precipitation of alumina by ammonia, 1927, 105.
- Murphy, J. C.** *See* Jones, D. B.
- Murray, A. F.** Determination of mercury in mercuric salicylate, 1927, 163.
- Murray, A. G.** Determination of terpin hydrate in terpin hydrate elixir, 1927, 550.
- Murray, B. L.** Standards and Tests for Reagent and "C.P." Chemicals (Review), 1928, 563.
- Murray, C. N., and Acree, S. F.** Use of saturated ammonium chloride in the elimination of contact potentials, 1932, 340.
- Murray, D. S.** The Laboratory: Its Place in the Modern World (Review), 1934, 655.
- Murray, J. A.** The Science of Soils and Manures (Review), 1926, 115.
- Murray, W.** *See* Colbeck, E. W.
— *See also* Haslam, J.
- Muschel, A.** Fractionation of serum proteins by means of ammonium sulphate, 1928, 548.
- Muschter, F. J. F., and Smid, E.** Influence of fatty acids on Bömer's melting-point method, 1926, 464.
- Muschter, F. J. F., and Visser, G.** Identification of α -palmitodistearin in presence of β -palmitodistearin, 1926, 353.

- Musher, S., and Willoughby, C. E.** Use of ultraviolet light in the detection of refined oil in virgin olive oil, **1929**, 672.
- Musso, L.** Fatal poisoning by sodium nitrite, **1926**, 641.
- Muttele, C. F.** Analysis of "fruit and apple" jams, **1927**, 597.
- Detection of apple in jams, **1927**, 160.
- Detection of apple juice in pure fruit preserves (cherries and strawberries), **1928**, 101.
- Detection of sorbitol in the analysis of jams, **1931**, 186.
- Differentiation of "regenerated" preserved peas and preserved green peas, **1926**, 150.
- Myers, O. H.** See Mond, Sir R.
- Myers, V. C.** Colorimetric determination of the hydrogen ion concentration of urine, **1928**, 448.
- See also Piffner, J. J.
- Myers, V. C., and Mull, J. W.** Influence of administration of aluminium upon aluminium content of the tissues, and upon growth and reproduction of rats, **1928**, 547.
- Myers, V. C., and Muntwyler, E.** Colorimetric determination of the hydrogen ion concentration of blood, **1928**, 447.
- Myers, V. C., Mull, J. W., and Morrison, D. B.** Determination of aluminium in animal tissues, **1928**, 547.
- ### N
- Nabarro, D., and Hickman, J. O.** Irradiation of milk for the increasing of its antirachitic potency, **1930**, 206.
- Nabenhauer, F. B.** See Anderson, R. J.
- See also Shriner, R. L.
- Naegeli, C., and Kaltman, H.** Molecular compounds of polyvalent phenols with aromatic diamines used as hair dyes, **1933**, 777.
- Nagasawa, J.** See Uchida, S.
- Nagel, R. H.** See Evenson, O. L.
- Nagy, V. L.** Determination of the smouldering capacity of tobacco, **1934**, 119.
- See also Bodnár, J.
- Naidu, S. R.** See Newcomb, C.
- Naish, W. A., and Clennell, J. E.** Select Methods of Metallurgical Analysis (Review), **1930**, 158.
- Nakamura, H.** See Bertrand, G.
- Nakamura, M.** Anti-oxygens of fatty oils. Action of *p*-nitraniline, **1934**, 363.
- Nakano, I.** See Nakaseko, R.
- Nakaseko, R., and Nakano, I.** Determination of small amounts of lead in animal tissues, **1926**, 46.
- Nametkin, S. S., and Melnikow, N.** Determination of thallium in its organic compounds, **1934**, 843.
- Nametkin, S. S., and Nekrassow, N.** Reaction for primary arsines, **1929**, 489.
- Nance, J. T.** See Guthrie, F. C.
- Nanji, D. R., and Norman, A. G.** Determination of the individual pectic substances in nature, **1928**, 397.
- Nanji, H. R.** A modified micro method of determining methoxyl and ethoxyl groups, **1934**, 96.
- See also Chinoy, J. J.
- See also Edwards, F. W.
- Nanji, H. R., and Chinoy, J. J.** Simple method for the purification of citrus pectin, **1934**, 554.
- Nafain, R.** See Hulpe, A. C.
- Narayanan, B. T., and Drummond, J. C.** Concentration of vitamin B₂, **1930**, 403.
- Nash, A. W.** See Howes, D. A.
- Nasini, R.** I Soffioni e i Lagoni della Toscana e la Industria Boracifera (Review), **1931**, 215.
- Natelson, S., and Sohel, A. E.** New method for the separation of sterols from vitamin D-containing materials, **1935**, 488.
- Naumann, E.** Determination of small quantities of aluminium in waters, **1933**, 359.
- Nave, G. M.** Apparent specific gravity and porosity. A comparison of various methods, **1927**, 367.
- Neal, W. M.** See Becker, R. B.
- Neale, S. M.** Determination of deliquescent substances in sized cotton materials, **1926**, 645.
- Near, C.** See Sullivan, B.
- Neblette, C. B.** Photography: Its Principles and Practice (Review), **1928**, 64.
- Neckers, J. W., and Kremers, H. C.** Fractional precipitation of the rare earths by electrolysis, **1928**, 355.
- Separation of ceria from other rare earths, **1928**, 355.
- Needham, D. M.** The Biochemistry of Muscle (Review), **1932**, 279.
- Needham, J.** Chemical Embryology. Vols. I, II and III (Review), **1932**, 204.
- Needs, F. E.** Appointed Public Analyst for the County Borough of Bristol, **1934**, 689.
- Report of the Public Analyst for the City and County of Bristol for the year 1934, **1935**, 612.
- Nekrassow, W.** See Nametkin, S. S.
- Nellensteyn, F. J.** Extraction apparatus for bituminous road surfaces, **1930**, 300. See also list of Errata.
- Nellensteyn, F. J., and Roodenburg, N. M.** Determination of asphaltene, **1930**, 768.
- Neller, J. E.** Accuracy of the Gutzeit method for arsenic, **1929**, 618.
- Nelson, E. K.** Detection and determination of lactic acid in the presence of other organic acids, **1926**, 591.
- Modification of the Fiehe test for the detection of invert sugar in honey, **1929**, 603.
- Non-volatile acids of the pear, quince, apple, loganberry, blueberry, cranberry, lemon and pomegranate, **1927**, 418.
- Pectic acids, **1926**, 582.
- Some organic acids of sugar cane molasses, **1929**, 670.
- See also Mottern, H. H.
- Nelson, E. K., and Mottern, H. H.** Florida grapefruit peel oil, **1934**, 644.
- Non-volatile organic acids in barley, oats, maize and rye plants, **1931**, 672.
- Organic acids in honey, **1931**, 403.
- Vitamin C content of frozen orange juice, **1933**, 235.
- Nelson, E. M.** See Jones, D. B.
- Nelson, J. M., and Anderson, R. S.** Glucose and fructose retardation of invertase action, **1926**, 588.
- Nelson, P. M.** See House, M. C.
- Nelson, V. E.** See Keil, H. L.

- Nelson, V. E., Jones, R. L., Adams, G., and Anderegg, L. T.** Cod-liver oil as food. Observations on the existence of vitamin^c E, 1927, 604.
- Nemec, A.** Colorimetric determination of phosphoric acid in soils, 1926, 532.
- Némec, V.** The furfural number of tanning extracts and their mixtures with sulphite cellulose extract, 1931, 761.
- Nemes, T.** See Stanék, V.
- Nemoto, C.** See Kaneko, S.
- Neogi, S.** A rapid micro bromide test for the detection of linseed oil in mustard seed oil, 1935, 91.
- Nerling, O.** See Bredemann, G.
- Neseni, R.** Investigation of peas, 1934, 417.
- Nesty, G. A.** See Riebsomer, J. L.
- Netter, R.** See Bailly, O.
- Neu, E.** See Tillmans, J.
- Neumann, G.** See Heiduschka, A.
- Neusbaum, C. A., De Verter, P. L., and Dean, E. W.** Portable combustion apparatus for the detection and measurement of small quantities of petrol vapour, 1926, 211.
- Nevalonnyj, M.** See Křiženecký, J.
- New, A. A.** Determination of small amounts of acids, alkalise and salts in textiles, 1932, 333.
- Newcomb, C.** Analysis of small urinary calculi, 1930, 399.
- Determination of alcohol and ethyl chloride in chloroform, 1926, 19.
- Report of Chemical Examiner for Government of Madras for year 1925, 1926, 409; for 1926, 1927, 538; for 1930, 1931, 664; for 1931, 1932, 717; for 1932, 1934, 37; for 1933, 1934, 541; for 1934, 1935, 759.
- Review of Piney's *Recent Advances in Haematology*, 1929, 691.
- The determination of manganese in the presence of silica, 1928, 644.
- See also McCarrison, R.
- Newcomb, C., and Sankaran, G.** Iodine metabolism, 1930, 399.
- Manganese in foodstuffs, 1929, 348.
- Newcomb, C., Naidu, S. R., and Varadachar, K. S.** The determination of mercury in viscera, 1935, 732.
- Newell, I. L.** See Skau, E. L.
- Newington, F. H.** Determination of carbon monoxide produced from painted surfaces in confined spaces, 1931, 757.
- Newitt, D. M.** See Bone, W. A.
- Newman, F. H., and Searle, V. H. L.** The General Properties of Matter (Review), 1933, 312.
- Newman, Sir G.** Report of the Chief Medical Officer of the Ministry of Health for the year 1932, 1933, 757.
- Newman, M. S., and Anderson, R. J.** Chemistry of the lipids of yeast. I. Composition of the acetone-soluble fat, 1933, 707.
- Newton, E. B.** See Benedict, S. R.
- Newton, R. C.** See Grettie, D. P.
- Nicholls, J. R.** Detection of the prohibited vegetable and coal tar colours in foodstuffs, 1927, 585.
- Nicholls, J. R.** Determination of small quantities of benzoic and cinnamic acids, with some notes on the colorimetric determination of salicylic acid, 1928, 19.
- Revision of Moor and Partridge's *Aids to the Analysis of Food and Drugs*, 5th Ed., 1935, 130.
- Specific gravities and immersion refractometer readings of dilute mixtures of acetone and water, 1929, 9.
- The detection of the prohibited vegetable and coal tar colours in foodstuffs, 1929, 335.
- The determination of benzoyl peroxide in flour, 1933, 4.
- The determination of quinine, 1934, 277.
- The examination of eggs suspected of being "preserved," 1931, 383.
- The rapid determination of small quantities of lead in calcium phosphate, 1931, 594.
- See also Adams, C. A.
- Nichols, M. L., and Thies, O. J., Junr.** Influence of citrates on the precipitation of barium sulphate, 1926, 216.
- Nichols, P. F.** Variations in contents of sugars and related substances in olives, 1930, 582.
- See also Morgan, A. F.
- Nichols, R. V. V.** See Allen, C. F. H.
- Nicholson, T. F.** See Harding, V. J.
- Nickolls, L. C.** The analysis of magnesium alloys, 1934, 16.
- The determination of bismuth in copper, 1934, 620.
- The determination of small amounts of bismuth in copper, 1933, 684.
- Nickolls, L. C., and Gaskin, J. G. N.** The determination of zinc in large quantity, with particular reference to the analysis of brass, 1934, 391.
- Nieloux, M.** See Hackspill, L.
- Nieloux, M., and Roche, J.** Reaction of potassium ferricyanide with the blood pigment, 1926, 95.
- Nicol, H.** Distribution of agar-liquefying bacteria, 1932, 189.
- The perception of odour, 1926, 373.
- Ultra-violet fluorescence as a test for citrus oils. Determination of substances producing the fluorescence, 1935, 433.
- See also Drakeley, T. J.
- Nicolini, M.** See Antoniani, C.
- Niedercorn, J. G.** See Merrill, H. B.
- Niederl, J. B.** See Gettler, A. O.
- See also Williams, A. S.
- Niederl, J. B., and Routh, I. B.** Micro vapour density determination. II, Determination of boiling-points, 1933, 115.
- Niederl, J. B., and Saschek, W. J.** Micro vapour density determination. I, Determination of molecular weight, 1933, 114.
- Niederl, J. B., and Silbert, E. P.** Gravimetric method for the micro-determination of molybdenum, 1929, 256.
- Niederl, J. B., and Whitman, B.** Micro-determination of carbon and hydrogen in an atmosphere of nitrogen, 1932, 740.
- Niehhammer, A.** Detection of glucosides in plant tissues, 1932, 62.
- Nielloux, F.** See Rothéa, F.

- Nielsen, H.** See Donnelly, J. T.
- Nielsen, N.** Effect of rhizopin on the growth of *Aspergillus niger*, 1932, 190.
- Niemann, C., and Link, K. P.** Composition of an aldobionic acid from flaxseed mucilage, 1934, 196.
- Nierenstein, M.** A flask for the recovery of volatile liquids, 1926, 569.
- Experiments on the quantitative separation of pilocarpine from quinine by means of gallotannin, 1932, 94.
- Review of Abderhalden's *Handbuch der Biologischen Arbeitsmethoden*. Lieferung 308, 1931, 422.
- Review of Bodansky's *Introduction to Physiological Chemistry*, 1927, 664.
- Review of *Contemporary Developments in Chemistry*, 1929, 262.
- Review of Holmyard's *Makers of Chemistry*, 1932, 810.
- Review of Hunter's *Creatine and Creatinine*, 1929, 195.
- Review of Huntress's *A Brief Introduction to the use of Beilstein's Handbuch der Organischen Chemie*, 1931, 842.
- Review of Marvel's *Organic Syntheses*. Vol. XI, 1931, 842.
- Review of Masson's *Three Centuries of Chemistry*, 1926, 325.
- Review of Morrow's *Biochemical Laboratory Methods for Students of the Biological Sciences*, 1928, 357.
- Review of Needham's *Chemical Embryology*. Vols. I, II and III, 1932, 204.
- Review of Needham's *The Biochemistry of Muscle*, 1932, 279.
- Review of Onslow's *Practical Plant Biochemistry*, 1929, 774.
- Review of Porter's *Molecular Rearrangements*, 1929, 261.
- Review of Rice's *The Mechanism of Homogeneous Organic Reactions from the Physical-Chemical Standpoint*, 1928, 406.
- Review of Spoehr's *Photosynthesis*, 1927, 176.
- Review of Steele's *Introduction to Plant Biochemistry*, 1934, 855.
- Review of Stewart and Dunlop's *Clinical Chemistry in Practical Medicine*, 1932, 279.
- Review of Stiles' *Photosynthesis*, 1926, 326.
- Review of Wilson's *The Chemistry of Leather Manufacture*, 1928, 463.
- The use of acetic anhydride in Zeisel's method for the determination of methoxy groups, 1926, 456.
- See also Adam, W. B.
- Nierenstein, M., and Skene, M.** The Natural Organic Tannins (Review), 1934, 856.
- Niessner, M.** Chemical identification of foreign substances in metals and alloys, 1932, 802.
- Microchemical tests in metallography, 1930, 654.
- Separation of beryllium from aluminium, iron and copper by *o*-hydroxyquinoline, 1929, 434.
- See also Moser, L.
- Niethammer, A.** Detection of rancidity in fats from intact seeds and fruits, 1929, 548.
- Formol titration of lemon juices, 1930, 517.
- Niethammer, A.** Testing seeds, etc., under the quartz mercury vapour lamp, 1929, 563.
- Nightingale, E.** See Andersen, A.
- See also Cooks, L. V.
- Nijholt, J. A.** See Waterman, H. I.
- Nikitin, E. K.** See Tschelinzeff, W. W.
- Nisihuku, S.** Gravimetric determination of thallium as cobaltinitrite, 1934, 573.
- Nitzberg, G.** See Khouvine, Ya.
- Nodder, C. R.** Determination of solubility number: micro method for measuring the extent to which a cellulose material has been chemically modified or degraded, 1931, 690.
- See also Lynch, L. P.
- Nodon, A., and Cuvier, G.** Radio-activity of wines, 1928, 675.
- Noetzel, O.** Determination of primary propyl alcohol in mixtures of ethyl alcohol and water, 1932, 734.
- Noller, C. R., Millner, I. J., and Gordon, J. J.** Capric acid from the seed fat of the California bay tree, 1933, 299.
- Nolte, E.** Determination of phenols in river water, 1931, 713.
- See also Splittberger, A.
- Noonan, N.** See Reilly, J.
- Noponen, G. E.** See Kolthoff, I. M.
- Nordlander, B. W.** Methods for the determination of mercury vapour, 1927, 357.
- Selenium sulphide, a new detector for mercury vapour, 1927, 357.
- Norin, G., and McMurray, R. L.** Oils of *Artemisia rigida* (Nutt.) Gray, 1935, 481.
- Norman, A. G.** Chemical constitution of the gums. Part I, Nature of gum arabic and the biochemical classification of the gums, 1929, 549. II, Tragacathin—the soluble constituent of gum tragacanth, 1931, 469.
- Composition of crude fibre, 1935, 837.
- See also Nanji, D. R.
- Norman, A. G., and Jenkins, S. H.** Determination of lignin. I, Errors introduced by the presence of certain carbohydrates. II, Errors introduced by the presence of proteins, 1935, 336.
- Normand, C.** See François, M.
- Norris, C., and Gettler, A. O.** Poisoning by lead tetra-ethyl, 1926, 209.
- Norris, D., Glover, P. M., and Aldis, R. W.** Lac and the Indian Lac Research Institute (Review), 1935, 436.
- Norris, E. R., and Church, A. E.** Study of the antimony trichloride colour reaction for vitamin A, 1930, 204. II, Dilution curve of cod-liver oil with antimony trichloride reagent, 1930, 458. III, Effect of concentration of reagent used, and the stability of the chromogenic substance to light, 1931, 126.
- Study of the antimony trichloride reaction for vitamin A, 1931, 197.
- Toxic effect of fish liver oils and the action of vitamin B, 1931, 125.
- Norris, E. R., and Danielson, I. S.** Comparison of biological and colorimetric assays for vitamin A as applied to fish oils, 1929, 612.
- Ratfish-liver oil as a source of vitamin A, 1930, 206.
- Norris, F. W.** See Bailey, K.

- Norris, F. W., and Carter, W. A.** Determination of the diastatic power of malt by potassium ferricyanide titration, **1935**, 415.
- Norris, M. E. G.** See Lampitt, L. H.
- Norris, R. V.** See McCarrison, R.
- North, C. E., and Park, W. H.** Standards for milk pasteurisation, **1927**, 294.
- Northall-Laurie, D.** Volumetric determination of sulphate, **1931**, 526.
- Notevarp, O.** Gasometric determination of water (moisture) by means of calcium hydride, **1930**, 344.
- Nottbohm, F. E., and Lucius, F.** Melecitose in Linden dew honey, **1929**, 670.
- Quartz crystals in honey, **1931**, 462.
- Nottbohm, F. E., and Mayer, F.** Choline factor of egg-yolk and the phosphatid-lecithin number of egg-lecithin, **1934**, 182.
- Determination of trigonelline in raw and roasted coffees, **1931**, 405.
- Distinction between lecithin preparations of animal and vegetable origin, **1933**, 43.
- Extraction of trigonelline from raw coffee, **1932**, 254.
- Occurrence and detection of choline in coffee, **1932**, 322.
- Occurrence of betaine in wheat bran, **1935**, 622.
- Phosphatids of wheat flour, **1934**, 417.
- Trigonelline content of coffee, **1931**, 543.
- Nottbaum, F. E., and Philippi, K.** Goats' milk and the composition of goats' blood, **1933**, 762.
- Nottin, P.** Detection of methylene blue in flours, **1934**, 630.
- Nottin, P., and Daron, A.** Wheat-rye flour and bread, **1935**, 621.
- Nugent, R. L.** See Estill, H. W.
- Nuka, P.** Determination of manganese as manganese ammonium phosphate, **1932**, 197.
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- Oakdale, U. O.** See Thompson, J. J.
- Oakley, K. P.** Woods used by the ancient Egyptians, **1932**, 158.
- Obermer, E., and Milton, R.** Individual Health. Vol. I, Biochemical Technique, **1935**, 282.
- Oberseider, J. L., and Boyd, J. H.** Effect of light on the determination of ethylene, **1931**, 413.
- Oberst, F. W.** Determination of sodium in human red blood cells, **1935**, 194.
- Obold, W. L.** See Smyth, H. F.
- O'Brien, J. R.** See Kinnersley, H. W.
- O'Brien, R. G.** See Walton, S. G.
- Ochoa, S., and Valdecasas, J. G.** Micro method for the determination of total creatinine in muscle, **1929**, 247.
- Ochotin, V. P., and Sytschoff, A. P.** Rapid colorimetric determination of nickel in copper alloys, **1932**, 798.
- Ode, W. H.** See Schrenk, W. T.
- Offord, H. R.** Rapid test for chlorate, **1935**, 341.
- O'Flaherty, F.** See Moore, E. K.
- Ofner, R.** Detection of bilberry juice by means of Pfahl's reaction modified for use with sweet wines, **1931**, 672.
- Ogburn, S. C.** Qualitative separation of the platinum metals, **1928**, 647.
- Ogburn, S. C., and Riesmeyer, A. H.** Determination of palladium by 6-nitroquinoline, **1929**, 63.
- Ogburn, S. C., Junr., and Brastow, W. C.** Quantitative determination of palladium by means of ethylene, **1933**, 366.
- Ogburn, S. C., Junr., and Miller, L. F.** Quantitative determination of osmium by means of strychnine sulphate, **1930**, 222.
- Ogilvie, A.** See Parrish, P.
- Ogilvie, J. P.** Determination of sulphur dioxide in sugar factory products, **1927**, 92.
- Ogston, A. G.** See Moggridge, R. C. G.
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- Ohlsson, E., and Fredholm, H.** Determination of nitrates and nitrites in whey, **1930**, 134.
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- Okáč, A.** Method of stirring during micro-electrolysis, **1934**, 203.
- See Dubský, J. V.
- Okell, F. L.** Review of Sutton's *A Systematic Handbook of Volumetric Analysis*, 12th Ed., **1935**, 850.
- Okell, F. L., and Lumsden, J.** A contribution to the iodimetric titration of tin, **1935**, 803.
- Okeloan, B. J., and Timmers, J. C.** Colorimetric evaluation of *Folia digitalis* according to the method of Knudson and Dresbach, **1931**, 675.
- Okey, R.** Micro method for determination of cholesterol by oxidation of the digitonide, **1930**, 654.
- Okoloff, F.** Determination of ammonia, trimethylamine, and other amines in foodstuffs, **1932**, 321.
- Okoloff, F. S.** Colorimetric determination of ergot in flour, **1929**, 352.
- Determination of corn cockle in flour by haemolysis, **1928**, 390.
- Okoloff, F. S., and Akimoff, I. G.** Determination of ergot in flour by a serological method, **1929**, 353.
- Olcott, H. S.** Anti-oxidants and the auto-oxidation of fats, II, **1935**, 114.
- Biological utilisation of esters of vitamin E, **1935**, 713.
- Olcott, H. S., and McCann, D. C.** Carotenase. Transformation of carotene into vitamin A *in vitro*, **1932**, 53.
- Olcott, H. S., and Mattill, H. A.** Vitamin E. I, Some chemical and physiological properties, **1934**, 295.
- Oldham, J. W. H.** Determination of aliphatic nitrates by titration, **1934**, 642.
- O'Leary, W. J., and Papish, J.** Analytical reactions of rubidium and caesium, **1934**, 436.
- Oleovich, H. S., and Mattill, H. A.** Unsaponifiable lipids of lettuce. I, Carotene, **1931**, 409.
- Oliveiro, C. J.** See Rosedale, J. L.
- Oliver, M., and Rendle, T.** *Byssochlamys fulva* and its effect on the tissues of processed fruit, **1934**, 564.
- Olmsted, W. H.** See Williams, R. D.
- Olsen, C.** Absorption of manganese by plants, **1934**, 707.

- Olsen, C.** Determination of ammonia in soil and the adsorption power of soil for ammonia, 1929, 676.
- Olsen, C., and Linderström-Lang, K.** Accuracy of the various methods of measuring concentration of hydrogen ions in soil, 1927, 556.
- Olsen, J. C.** Editor of *Van Nostrand's Chemical Annual*, 7th Issue (Review), 1935, 648.
- Olzsewski, B. B.** See Renescu, N. E.
- Ongaro, D.** Determination of silk in silk fabrics, 1931, 478.
- Onslow, M. W.** Practical Plant Biochemistry (Review), 1929, 774.
— The Principles of Plant Biochemistry. Part I (Review), 1931, 346.
- Oosterhof, D.** See Waterman, H. I.
- Oppenheimer, C.** Chemische Grundlagen der Lebensvorgänge (Review), 1935, 724.
- Orbán, G., and Stitz, J.** Fluorescence of honey in ultra-violet light, 1929, 240.
- Orent, E. R.** See Itter, S.
- Oreta, A. T., and West, A. P.** Salts of α -linolic acid tetrabromide, 1927, 608.
- Orla-Jensen, Dairy Bacteriology**, 2nd Ed. (Review), 1931, 775.
— Investigation of the degree of heating of milk, 1932, 383.
- Orlow, I. E.** Determination of traces of chloride in bromides, 1931, 554.
- Orlow, J. E.** Rapid determination of sulphate with the use of a collecting agent, 1934, 847.
- Ormont, B.** Iodimetric determination of arsenic acid, 1926, 269.
— Volumetric determination of selenium, 1931, 337.
- Ormont, B., and Ssamoilow, A.** Volumetric determination of boron nitride, 1935, 719.
- Orr-Ewing, J.** See Peters, R. A.
- Orr-Ewing, J., and Reader, V.** *Streptothrix corallinus* in the determination of vitamin B₁, 1928, 394.
- Orthmann, A. C., and Arner, W. J.** The cold test for neatsfoot oil, 1929, 119.
- Osborn, A. S.** Questioned Documents, 2nd Ed., (Review), 1929, 501.
— Sequence of strokes in blotted writing, 1928, 35.
— The Problem of Proof (Review), 1927, 180.
- Osborn, R. A., and Krasnitz, A.** Study of the Kjeldahl method (for the analysis of flour). Comparison of selenium, copper and mercury catalysts, 1933, 289.
- Osborne, A. G.** See Ford, K. L.
- Osborne, W. A.** Note on volatile sulphide from muscle, 1929, 51.
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- Oser, B. L., and Karr, W. G.** Correction of Folin-Wu blood sugar values, 1926, 258.
- Oshima, K.** Preservation of the amylase solution of *Aspergillus oryzae*, 1928, 612.
- Oshima, Y., and Takahashi, T.** Bromination of cresols, 1927, 727.
- Oslem, C.** Determination of nitrogen in soils in the presence of nitrates and nitrites, 1928, 234.
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- Osterberg, A. E.** Determination of glycogen in small amounts of tissue, 1930, 145.
- Osterhof, H. J.** See Bartell, E. E.
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- Ostwald, W.** Practical Colloid Chemistry (Review), 1927, 174.
- O'Sullivan, D.** The influence of amyl ether on the indicated fat percentage in the Gerber process, 1935, 301.
- Ota, Y.** See Ueno, S.
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- Otto, C.** Improvement of the cobalt aluminate test for aluminium, 1926, 478.
- Öttö, G.** Variable action of acids on hide substance and a new method of detecting harmful acids in leather, 1934, 844.
- Oüer, R. A.** See Lepkovsky, S.
- Outhouse, J., Macy, I. G., and Brekke, V.** Quantitative comparison of the antirachitic factor in human milk and cow's milk, 1928, 450.
- Outhouse, J., Macy, I. G., Brekke, V., and Graham, A.** Note on the vitamin A and B content of cow's milk, 1927, 425.
- Owen, G.** Transference of small quantities of liquids, 1931, 557.
- Owen, O.** Analysis of tomato plants, 1929, 558.
- Owen, W. L., and Mobley, R. L.** Thermophilic bacteria in refined cane sugars, 1932, 732.
- Owens, J. S.** Measuring the smoke pollution of city air, 1926, 2.
— Measurement of ultra-violet radiation in daylight, 1935, 784.
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- Oxford, A. E.** Use of dioxan as solvent in the determination of molecular weights by the cryoscopic method, 1934, 850.

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- Page, G. R.** See Hampshire, C. H.
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- Page, R. P.** Annual Report of Public Analyst for Borough of Portsmouth for 1924, 1926, 32; for 1925, 1926, 457; for 1926, 1927, 704; for 1927, 1928, 646; for 1934, 1935, 612.
- Pagel, H. A., and Ames, O. C.** Iodimetric determination of small amounts of zinc, 1930, 648.
- Pagel, H. A., and Carlson, W.** Determination of cyanide by distillation from acid solution, 1933, 108.
- Pagel, H. A., and Koch, H. J.** Iodimetric thiocyanate titration, 1931, 555.
- Paget, Langeron and Devriendt.** Distribution and elimination of bismuth in the body, 1932, 537.
- Paget, H.** The determination of ascaridole in chenopodium oil, 1926, 170.
- Paget, M., and Desodt, C.** Identification and determination of barbituric principles in urine, 1933, 772.
- Paget, M., and Lohéac, P.** Determination of adrenalin in the suprarenal glands, 1928, 545.
- Paillard, H.** See Briner, E.
- Paine, H. S.** See Church, M. B.
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- Paine, H. S., and Balch, R. T.** Clerget-invertase hydrolysis constants of sucrose and raffinose, **1927**, 350.
- Paine, H. S., Birchner, V., and Hamilton, J.** Prevention of "bursting" in chocolate-coated fondant creams, **1927**, 295.
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- Palfray, L., Sabetay, S., and Sontag, D.** Identification of primary phenylethyl alcohol, as oxalate, **1933**, 713.
- Method of determining (aromatic) aldehydes, based on Cannizzaro's and Claisen's reactions, **1932**, 472.
- Palkin, S.** Fractionation of American gum spirits of turpentine and evaluation of its pineae content by optical means, **1932**, 331.
- See also Watkins, H. R.
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- Palmer, J. C.** Report on eggs and egg products, **1930**, 134.
- Palmer, J. W.** See Behr, L. D.
- Palmer, L. S.** See Kennedy, C.
- See also Sweetman, M. D.
- Palmer, W. W.** Titration of organic acids in urine, **1926**, 419.
- Paloheimo, L.** Iodine colorimetric method for the determination of starch, **1930**, 767.
- Pamfilov, A. V., and Kisseleva, V. E.** Lehmann's method for the determination of aniline, **1929**, 60.
- Panaitescu, C.** See Cerchez, V.
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- Paneth, F.** Radio-elements as indicators, **1928**, 180.
- Pañganiban, E. H., and Soliven, F. A.** Modified confirmatory test for aluminium, **1928**, 616.
- Pantin, C. F. A.** See Atkins, W. R. G.
- Papadakis, P. E.** Invertase from honey, **1929**, 669.
- Papavassiliou, M. J., and Georgiadès, J.** New reactions of salts of quinine. Volumetric method for determining the alkaloid, **1932**, 323.
- Papish, J.** See O'Leary, W. J.
- Papish, J., Brewer, F. M., and Holt, D. A.** Arc-spectrographic detection and determination of germanium, **1928**, 113.
- Papish, J., and Hoag, L. E.** Separation of gallium from iron, **1928**, 558.
- Paris, R.** See Fleury, P.
- Park, B.** An overlooked source of error in the ferrocyanide titration of zinc, **1932**, 196.
- Determination of small amounts of bismuth, antimony, tin and molybdenum in copper (spectrographic method), **1934**, 501.
- The bismuthate method for the determination of manganese, **1926**, 425.
- Park, B., and Lewis, E. J.** Determination of small amounts of antimony in copper, **1933**, 497.
- Park, B. and Lewis, E. J.** Determination of small amounts of lead in copper, **1935**, 495.
- Park, W. H.** See North, C. E.
- Parker, A. J., and Spackman, L. S.** Investigations on the relations between the acidity and freezing-point of milk, **1929**, 217.
- Parker, H. H.** See McKee, R. H.
- Parkes, A. E.** A simple method of testing for the presence of sulphites in foodstuffs, **1926**, 620.
- Appointed Agricultural Analyst for County Borough of West Ham, **1932**, 163; Public Analyst for County Borough of West Ham, **1932**, 29.
- Parkes, E. B.** See Edwards, F. W.
- Parkes, G. D.** See Chattaway, F. D.
- Parkinson, S. T., and Fielding, W. L.** The Microscopical Examination of Cattle Foods (Review), **1932**, 136.
- Parks, W. G., and Prebluda, H. J.** Hexammine cobaltic compounds of vanadium, **1935**, 778.
- Parrish, P., and Ogilvie, A.** Artificial Fertilisers (Review), **1927**, 436.
- Parry, E. J.** Obituary of M. S. Salamon, **1928**, 568.
- Parry's Cyclopaedia of Perfumery (Review), **1926**, 117.
- Review of Hedley Barry's *Natural Varnish Resins*, **1934**, 308.
- Review of Barry, Drummond and Morrell's *Natural and Synthetic Resins*, **1927**, 56.
- Review of Finnemore's *The Essential Oils*, **1927**, 111.
- Review of *Lac and Indian Lac Research Institute*, **1935**, 436.
- Shellac: Its Production, Manufacture, Chemistry, Analysis, Commerce and Uses (Review), **1935**, 434.
- Parry, L. A.** Some Famous Medical Trials (Review), **1927**, 665.
- Parry-Jones, R. T.** See Stafford, N.
- Parsons, E. I.** See Hyde, R. R.
- Parsons, H. L.** Determination of the acetyl content of carbohydrate acetates, **1933**, 364.
- See also Ridge, B. P.
- Parsons, T. R.** Traces of combustible gases in human expired air, **1930**, 585.
- Partington, J. R.** Origins and Development of Applied Chemistry (Review), **1935**, 498.
- Review of Creighton's *Principles and Applications of Electrochemistry*. Vol. I, 2nd Ed., **1929**, 192.
- See also Hawkins, F. S.
- Partridge, H. M.** See Yagoda, H.
- Partridge, W.** Appointed Public Analyst for the Metropolitan Borough of Fulham, **1933**, 155.
- Black draught, **1931**, 29.
- Boric acid in coffee, **1927**, 401.
- Dictionary of Bacteriological Equivalents, **1928**, 66.
- Obituary of Benedict Kitto, **1928**, 314.
- Review of Böhm and Dietrich's *Reagenzien und Nährboden*, **1928**, 186.
- Review of Eyre's *Bacteriological Techniques* 3rd Ed., **1931**, 772.
- Review of Tanner's *Practical Bacteriology*, **1929**, 375.

- Partridge, W.** Review of Thresh, Beale and Suckling's *The Examination of Waters and Water Supplies*, 1933, 727.
 — The acidity of Gorgonzola and Stilton cheeses, 1932, 771.
 — The detection of apple pulp in jam, 1926, 346.
 — The extractives of brandy, 1929, 154.
 — The extractives of rum, 1932, 772.
 — The extractives of whisky, 1931, 177.
 — The reaction of human milk, 1933, 88.
 — See also Moor, C. G.
- Pascoe, T.** See Gregory, R.
- Pass, A., and Ward, A. M.** The determination of cadmium in the presence of zinc, in spelter and in zinc ores, 1933, 667.
- Patat, F.** Electrical micro-determination of mercury, 1932, 803.
- Pates, E. W.** Review of *Annual Reports of the Society of Chemical Industry on the Progress of Applied Chemistry*, 1933, 1934, 443.
- Patterson, A. M.** A German-English Dictionary for Chemists, 2nd Ed. (Review), 1935, 726.
 — See also Crane, E. J.
- Patterson, T. C., and Frederick, R. C.** The testing of Admiralty disinfectant fluid, 1931, 93.
- Patty, F. A., Schrenk, H. H., and Yant, W. P.** Determination of small amounts of methyl chloride in air, 1932, 668.
- Patzauer, A.** Distinction of wine-vinegar from other vinegars, 1933, 700.
- Paul, H.** See Hilditch, T. P.
- Paulley, W. M.** See Henville, D.
- Pavelka, F.** Tests for zirconium, 1931, 209.
- Pavelka, F., and Kolmer, E.** Specific test for cadmium, 1930, 599.
- Pavelka, F., and Molterer, H.** Collected references. Spectral analysis, 1935, 274.
- Pavelka, F., and Morth, H.** Rapid determination of small amounts of thallium in the presence of lead and bismuth, 1932, 804.
 — Rapid micro-analysis of pure aluminium. I, Iron, copper and manganese, 1933, 785.
- Pavlas, P.** See Staněk, V.
- Pavolini, T.** 2, 3-Diaminophenazine as a reagent for metal ions, 1934, 365.
- Pawletta, A.** See Meyer, J.
- Pawlow, W. P.** See Budagjan, F. E.
- Payne, L. F.** See Hughes, J. S.
- Payne, R. W.** Determination of basic dyes by precipitation with phosphotungstic acid, 1934, 843.
- Peacock, D. H., and Thoug, Chit.** Oil from the seeds of *Asteriastigma macrocarpa*, 1931, 117.
- Peacock, R. R.** See Harrison, R. R.
- Pease, V. A.** Notes on the histology of the almond, 1931, 187.
- Peck, J. R. S.** See Rodgers, T. S.
- Pederson, C. S., Peterson, W. H., and Fred, E. B.** Forms of lactic acid produced by pure and mixed cultures of bacteria, 1926, 361.
- Peeren, K.** See ter Meulen, H.
- Peet, C. H.** Valuation of insecticides, 1929, 49.
- Pegurier, M. G.** Standard alkaline copper solution (Fehling reagent), 1926, 91.
- Pellerin and Lasausse.** Corrosion of tin plate, 1932, 47.
- Pelly, R. G.** Hydrogenation of fatty acids and of mixtures of fatty acids with neutral oils, 1928, 110.
- Peltzer, J.** Detection of sperma in forensic cases, 1931, 198.
 — Microchemical colour reaction of *m*-dinitrobenzene for the forensic detection of benzene, 1933, 297.
 — Rapid method for the determination of the amount of sodium nitrite in pickling- and preserving-salt, 1932, 467.
 — Toxicological detection of veronal, luminal and phanodorm, 1933, 773.
- Pemberton, E. S., Card, S. T., and Craven, E. C.** Testing of acetone, 1935, 567.
- Péneau, H., and Hardy, Z.** Study of the digitonin ergosterol complex, 1929, 254.
- Péneau, H., and Tanret, G.** Dextro-rotatory sterol of yeast. Zymosterol, 1929, 431.
- Péntcheff, N. P.** Quantitative determination of neon in natural gases, 1929, 617.
- Peper, J. P.** Determination of the age of bread, 1926, 251.
 — See also Straub, J.
- Percival, G. H.** Experimental observations on dermatitis due to dyed fur, 1931, 754.
- Perietzeanu, J.** See Bertrand, G.
- Perkin, F. M.** Qualitative Chemical Analysis, 5th Ed. (Review), 1935, 789.
- Perkins, G. A.** Oxidation of chaulmoogric acid by permanganate, 1926, 465.
- Perkins, G. A., Cruz, A. O., and Reyes, M. O.** Characteristics of some oils of the chaulmoogra group, 1927, 548.
- Perlman, J. L.** Analysis of mayonnaise and the variability of its egg-constituents, 1932, 719.
- Péronnet, M.** Determination of benzene in toxicology. I, Preliminary study of the colorimetric determination of *m*-dinitrobenzene, 1934, 711.
- Péronnet, M., and Truhaut, R.** Colour reactions of metadinitrobenzene in alkaline medium. Determination of benzene vapour in the air, 1934, 431.
- Perquin, J. N. J.** See Waterman, H. I.
- Perrin, F.** See Chilowsky, C.
- Perrot, E., and Bourget, P.** Determination of crystallised digitalin, 1928, 343.
- Perrot, E., and Rouhier, A.** Yocco, a new caffeine-containing drug, 1926, 465.
- Perry, C. A.** Significance in oysters and water of aerobic non-sporulating bacteria producing gas from lactose, 1930, 58.
- Perry, E. O. V.** See Crawford, M. E. F.
- Pertschik, F. I.** See Tananaeff.
- Pertschik, F. I.** Rapid analysis of waterglass, 1933, 641.
- Pesez, M.** Colour reaction of chloral and its application to the identification of syrup of chloral, 1935, 625.
 — New reaction of tartaric acid, 1935, 558.
 — New specific reaction for yohimbine, 1935, 709.
 — Test for citric acid and a reagent for the opium alkaloids and phenols, 1935, 709.
- Peakett, G. L.** Synthesis of antineuritic vitamin by yeast, 1928, 47.

- Peter, A.** Preliminary tests for the detection of small amounts of hydrogenated oils, tallow and fats of the palm-fat group in lard, **1935**, 182.
- Peter, J.** See Grossfeld, J.
- Peterkin, A. G., and Ferris, S. W.** Vacuum distillation test for heavy petroleum oils, **1926**, 104.
- Peterman, F. I.** See Underhill, P. F.
- Peters, B. G.** Bionomics of the vinegar eelworm, **1928**, 661.
- Peters, J. P., and Van Slyke, D. D.** Quantitative Clinical Chemistry. Vols. I and II (Review), **1933**, 181.
- Peters, R. A.** See Kinnersley, H. W.
- Peters, R. A., Kinnersley, H. W., Orr-Ewing, J., and Reader, V.** Relation of vitamin B to the growth-promoting factor for a *Streptothrix*, **1928**, 394.
- Petersen, E. E.** See Levine, M.
- Peterson, E. G.** See Picard, J.
- Peterson, J. B.** Test to show the absence of citrate or tartrate in mixtures, **1926**, 49.
- Peterson, V. L.** See West, E. S.
- Peterson, V. L., and West, E. S.** Volumetric determination of hydroxyl groups in sugars and other organic compounds, **1927**, 607.
- Peterson, W. H.** See Elvehjem, C. A.
— See also Lindow, C. W.
— See also Marvin, G. E.
— See also Pederson, C. S.
— See also Priem, L. A.
— See also Preuss, L. M.
— See also Skinner, J. T.
— See also Wilson, P. W.
- Peterson, W. H., and C. B.** Water-soluble content of calcium and phosphorus in cabbage, **1927**, 93.
- Peterson, W. H., and Elvehjem, C. A.** The iron content of plant and animal foods, **1928**, 444.
- Petraschenj, W. J.** Colour reaction for magnesium, **1927**, 559.
- Petrey, A. W.** Spectroscopic determination of fluorine in water, **1934**, 781.
- Petrovsky, A.** Rapid test for tungsten in ores, **1929**, 490.
- Pett, L. B.** Determination of inorganic phosphate in the presence of arsenic, **1934**, 647.
- Pettet, A. E. J.** See Morgan, G. T.
- Pettinari, V.** Haemolysins of fungi, **1926**, 260.
- Pexton, S.** See Eaton, F. J.
- Pfau, E.** See Danckwortt, P. W.
- Pfeiffer, H.** See Eble, K.
- Pfiffner, J. J.** See Rockwood, E. W.
- Pfiffner, J. J., and Myers, V. C.** Colorimetric determination of guanidine bases in blood, **1930**, 521.
- Pflaum, D. J., and Wenzke, H. H.** Determination of fluorine and boron in organic compounds, **1932**, 793.
- Pfyl, B., and Schmitt, O.** Determination of nicotine in tobacco and tobacco smoke, **1927**, 728.
- Phelps, E. P., and Rowe, A. W.** Determination of aldehyde in ether, **1926**, 308.
- Philbrick, B. G.** Variation of phenol coefficients of coal-tar disinfectants with different test organisms, **1930**, 594.
- Philibert, A., and Risler, J.** Action of neon light on bacteria, **1927**, 97.
— Bactericidal action of dyes, **1928**, 450.
- Philip, G. G.** See Guthrie, J. M.
- Phillip, J.** Obituary of Sir William Tilden, **1927**, 113.
- Phillippe, M.** See Balthazard, —.
- Philippot, L.** Determination of cobalt by means of nitroso- β -naphthol, **1935**, 429.
- Phillips, E. R.** Utilisation of carbohydrates by honey bees, **1928**, 46.
- Phillips, H.** Determination of "uronic" acids and pentoses in tanning extracts, **1931**, 826.
— Review of Armstrong's *The Glycosides*, **1932**, 481.
— Review of Hopkin and Williams' *Organic Reagents for Metals*, **1933**, 310.
— Review of Nierenstein's *Natural Organic Tannins*, **1934**, 856.
— See also Humphreys, F. E.
- Phillips, M.** Determination of methoxyl, lignin and cellulose in plant materials, **1932**, 402.
- Phillips, M., Goss, M. J., and Browne, C. A.** Determination of uronic acids and methoxyl in certain plants and plant materials, **1933**, 495.
- Phillips, P. H., Hart, E. B., and Bohstedt, G.** Influence of fluorine ingestion upon the nutritional qualities of milk, **1934**, 497.
- Phillips, R. J.** Note on the stability of solutions of potassium metabisulphite, **1928**, 150.
— See also Knapp, A. W.
- Phillips, T. G.** Determination of sugars in plant extracts, **1932**, 325.
- Philpot, J. St. L.** See Askew, F. A.
- Picard, J., Peterson, E. G., and Bitting, C. D.** Determination of oxides of nitrogen (except nitrous oxide) in low concentration, **1930**, 647.
- Pichler, A.** Gravimetric analysis with the Kuhlmann micro-balance. (1) Drying of precipitates. (2) Determination of aluminium, **1930**, 298.
- Pick, L.** Detection of benzoic acid as methyl ester, **1931**, 466.
- Pickett, T. A.** Comparative study of juices from frozen fruits, **1932**, 385.
— See also Holley, K. T.
- Pickholz, S.** Use of ultra-violet light in the brewery laboratory, **1933**, 571.
- Pickles, J.** See Woodard, W. A.
- Pickworth, F. A.** Method for the determination of iodine in thyroid gland, **1926**, 92.
- Picon, M.** Behaviour of quinine iodobismuthate with solvents and some applications of the solutions, **1934**, 704.
— Identification of thallium as thiocarbonate, **1933**, 302.
— Preparation and properties of thallous thiocarbonate, **1933**, 111.
— See also Fabre, R.
- Pictet, A., and Pictet, R.** Volatile alkaloid of pepper, **1927**, 649.
- Pictet, R.** See Pictet, A.
- Piedallu, A.** Colour reactions of flours, **1927**, 38.
- Pierce, H. B., and Kilborn, R. B.** Quantitative determination of indole in bacterial cultures, **1929**, 251.
- Pierce, H. F.** Nitrocellulose membranes of graded permeability, **1928**, 114.

- Pierce, J. A.** Detection and determination of carbon disulphide in fluids, **1929**, 768.
- Pierce, J. S., and Forsee, W. T.** Detection of cadmium, **1931**, 416.
- Pierlot, G.** Adulteration of saffron, **1926**, 41.
- Pierr, J.** See Dostos, K.
- Pieters, H. A. J.** Volumetric determination of carbon monoxide by means of a suspension of iodine pentoxide in fuming sulphuric acid, **1931**, 550.
- Pieters, H. A. J., and Mannens, M. J.** Determination of nitrous and nitric acids in sulphuric acid, **1931**, 65.
- Pieters, H. A. J., Van Iterson, J., and Spronck, S. J. H.** Determination of sulphur in benzene, **1934**, 127.
- Piettre, M.** Preparation of myoalbumin by the acetone method; its principal properties, **1926**, 45.
- Pigott, M. G.** See Holmes, A. D.
- Pilaar, W. M. M.** Determination of carbon monoxide in blood, **1928**, 612.
- Determination of carbon monoxide in blood, **1929**, 553.
- Pilcher, R. B.** Obituary notice of J. M. Thomson, **1933**, 315.
- Pillay, P. P., and Siddiqui, S.** Chemical examination of the marking nut, **1932**, 796.
- Pinck, L. A.** Use of nitrogen tetroxide in place of nitric acid in organic nitrations, **1927**, 724.
- Pinck, L. A., and Blair, J. S.** New reactions of the mixed aquo-ammonio-carbonic acids, **1927**, 248.
- Pincussen, L., and Roman, W.** Micro-determination of silver in blood and organs, **1930**, 350.
- Pines, C. C.** See Leffmann, H.
- Piney, A.** Recent Advances in Haematology (Review), **1929**, 691.
- Recent Advances in Microscopy. Biological Applications (Review), **1931**, 695.
- Pinguet, A.** See Bougault, J.
- Pinkus, A., and Katzenstein, M.** Separation and determination of mercury by means of cupferron, **1930**, 526.
- Pinte, P.** See Raquet, D.
- Pinten, P.** Artificial resins as containers for drugs, **1935**, 769.
- Piper, C. S.** Volumetric determination of potassium by the cobaltinitrite method, **1935**, 198.
- Piper, S. H.** See Chibnall, A. C.
- Piratzky, W.** Merck's diastase, a proposal for barley analysis, **1934**, 418.
- Pistiner, R.** See Rappaport, F.
- Pistor, K.** See Fonrobert, E.
- Pizer, N. H.** Determination of nicotine by the silicotungstic acid method, **1935**, 48.
- Plahl, W.** Detection of woody plant membranes with phloroglucinol and hydrochloric acid, **1932**, 124.
- Rapid test for an excessive amount of lime in ground pepper, **1928**, 103.
- Plahl, W., and Rotsch, A.** Detection of the colouring matter of paprika in sausages, **1933**, 412.
- Plank, E.** Spot test for hydrogen peroxide, **1935**, 59.
- Platt, B. S., and Dayson, E. R.** Factors influencing the action of pancreatic lipase, **1926**, 96.
- Plenderleith, H. J.** Review of Lucas's *Ancient Egyptian Materials and Industries*, 2nd Ed., **1935**, 64.
- Plichta, J.** See Kubina, H.
- Plimmer, R. H. A.** Micro-determination of phosphorus as phosphomolybdate, **1934**, 370.
- Organic and Bio-Chemistry, 5th Ed. (Review), **1934**, 68.
- Practical Organic and Bio-Chemistry (Review), **1927**, 107.
- Plimmer, R. H. A., and Rosedale, J. H.** Analysis of Proteins. VII. Direct determination of arginine, **1926**, 309.
- Plimmer, R. H. A., Raymond, W. H., and Lowndes, J.** Experiments on nutrition. X. Comparative vitamin B₁ values of foodstuffs. Cereals. II, **1931**, 679.
- Plücker, W.** Gas warfare and foods, **1934**, 841.
- Tabellen- und Rechenbuch für Nahrungsmittelchemiker (Review), **1931**, 344.
- Untersuchung der Nahrungs- und Genussmittel, Allgemeine Methoden (Review), **1931**, 344.
- Plücker, W., and Bartels, W.** Determination of the number of organisms in water, **1929**, 56.
- Plücker, W., and Keilholz, W.** Colorimetric determination of chlorogenic and caffeic acids in roasted coffee, **1934**, 762.
- Determination of chlorogenic and caffeic acids, **1933**, 701.
- Poe, C. F., and Fehlmann, H. A.** Vitamin A content of naturally coloured nut margarines, **1933**, 415.
- Poe, C. F., and Field, J. T.** Biochemical study of the fermentation of rare sugars by members of the colon-aerogenes groups of bacteria. I. Trehalose, **1933**, 106.
- Poe, C. F., and Klemme, D.** Reducing equivalents for some rare sugars as determined by colorimetric methods, **1930**, 452.
- Poe, C. F., Wyss, A. P., and McEver, T. G.** Chemical study of tomato juice, **1934**, 115.
- Poirot, G., and Lambert, A.** Detection of blood in urine, **1926**, 642.
- Polijakow, A., and Kolokolow, N.** Colorimetric determination of arsenic, **1930**, 216.
- Pollak, L.** Identification of tanning agents under the quartz mercury-vapour lamp, **1934**, 439.
- Two new qualitative tests for vegetable tanning materials, **1930**, 646.
- Pollard, A.** See Chibnall, A. C.
- Pollard, G.** See Carter, J.
- Pollard, N.** A sound-proof box for electrically-driven laboratory centrifuges, **1935**, 752.
- Polonovski, M., and Cappelaere, J.** Determination of the alkaloid bases of Calabar beans, **1931**, 818.
- Polonovski, M., and Lespagnol, A.** Two new sugars of human milk, gynolactose and allolactose, **1931**, 539.
- Poluektoff, N. S.** Detection of selenium and tellurium, **1934**, 504.
- New spot test for potassium, **1934**, 650.
- See also Komarowsky, A. S.
- Ponomarjeff, W. D.** See Tananaeff, N. A.

- Ponte, A.** Comparison of chestnut bark and chestnut wood extracts, **1932**, 667.
- Pool, C. J.** See Bywaters, H. W.
- Pool, W. O.** See Ellis, N. R.
- Poole, H. G.** Separation of phthalic and homophthalic acids, **1928**, 399.
- Poole, J. W.** Solubilities of oils and waxes in organic solvents, **1930**, 212.
- Pope, —.** See Kegel, —.
- Pope, C. G.** Determination of aluminium in certain aluminium protein compounds, **1932**, 259.
- Pope, T. H.** Bibliography on heavy metals in food and biological material. I, Copper, **1932**, 709; II, Lead, **1932**, 775; III, Zinc, **1933**, 30; IV, Manganese, **1933**, 91; V, Mercury, **1933**, 280; VI, Cobalt, **1933**, 340; VII, Nickel, **1933**, 340; VIII, Chromium, **1933**, 341; IX, Tin, **1933**, 398; X, Bismuth, **1933**, 607; XI, Antimony, **1934**, 109; XII, Cadmium, **1934**, 109; XIII, Thallium, **1934**, 109.
- Review of *Annali di Merceologia Siciliana*. Vol. II, **1935**, 727.
- Review of Hausbrand's *Principles and Practice of Industrial Distillation*, **1926**, 58.
- Review of Nasini's *I Soffioni e i Lagoni della Toscana e la Industria Boracifera*, **1931**, 215.
- Review of *Reports of the Progress of Applied Chemistry*, **1931**, 486.
- Review of Santangelo's *Dizionario Pratico degli Alimenti*, **1933**, 123.
- Review of Semerano's *Il Polarografo*, **1933**, 64.
- Review of Villavecchia's *Dizionario di Merceologia e di Chimica Applicata*. Vols. I and II, **1930**, 357; Vol. III, **1932**, 69; Vol. IV, **1932**, 548.
- Popesco, A.** See Ionescu-Matiu, A.
- Popp, —.** Use of ultra-violet light in the examination of foods, **1926**, 540.
- Popper, W.** See Lepkovsky, S.
- Porcherel, A.** See Fromageot, C.
- Porritt, B. D.** See Dawson, T. R.
- See also Stevens, H. P.
- Porter, C. H.** See Drew, H. D. K.
- Porter, C. W.** Molecular Rearrangements (Review), **1929**, 261.
- Porter, F. R., Michaelis, H., and Shay, F. G.** Changes in fats during frying, **1932**, 660.
- Porter, L. E.** Colorimetric method for the determination of free chlorine in air, **1926**, 476.
- Portnoff, M. A.** See Tolkatschoff, S. A.
- Posdeew, A.** See Glassmann, B.
- Posdniakowa, S.** See Tschepelwetzky, H.
- Post, P.** Cause of beet odour and taste in milk and butter, **1931**, 402.
- Potschinok, C. N.** See Tananaeff, N. A.
- Potter, F. M.** Review of Spielmann and Elford's *Roadmaking and Administration*, **1934**, 853.
- See also Golding, W. E.
- Potter, F. M., and Williams, H. B.** Determination of *o*-cresol, **1932**, 267.
- Poucher, W. A.** Perfumes, Cosmetics and Soaps, with especial reference to Synthetics (Review), **1926**, 275; Vol. II, **1927**, 109; 2nd Ed., **1929**, 314; Vols. I and II, 3rd Ed., **1931**, 348; Vol. II, 4th Ed., **1933**, 251.
- Poulsson, E., and Ender, F.** Vitamin content of cod-liver oil as influenced by the nutritional state of the cod, **1934**, 428.
- Pouzergues, J.** See Sazerac, R.
- Powarnin, G., and Schischiroff, I.** Leather analysis, **1927**, 47.
- Powell, A. D.** Colour reaction of bismuth, **1933**, 706.
- See also Hall, G. F.
- Powell, A. D., and Hall, G. F.** Determination of acriflavine and related medicinal dyes, **1933**, 705.
- Determination of lead and other metals, in iron salts, **1932**, 736.
- Powell, A. R.** Determination of zinc in cadmium, **1931**, 479.
- Review of Keane and Thorne's *Lunge and Keane's Technical Methods of Chemical Analysis*, 2nd Ed. Vol. II, **1929**, 66.
- Powell A. R.** Review of Treadwell's *Analytical Chemistry*. Vol. I, Qualitative Analysis, 8th English Ed., **1932**, 678.
- See also Schoeller, W. R.
- Powell, A. R., and Schoeller, W. R.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. XVIII, A new method for the separation of titanium from zirconium and hafnium, **1930**, 605.
- Powell, A. R., Schoeller, W. R., and Jahn, G.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. XXIX, The separation of tungsten from titanium, niobium, tantalum and zirconium, **1935**, 506.
- Powell, C. K.** See Sharp, P. F.
- Powick, W. K.** Inactivation of vitamin A by rancid fat, **1926**, 259.
- The Kreis test for rancidity, **1928**, 387.
- See also Hoagland, R.
- Prange, G.** Iodine content of commercial iodised table salt, **1933**, 768.
- Prasad, M.** See Vaish, B. L.
- Pratesi, P.** New colour reaction of formaldehyde and ketones with sodium nitroprusside and hydroxylamine, **1932**, 122.
- Pratt, J. D.** Dangerous properties of ethylene chlorhydrin, **1931**, 198.
- Prausnitz, C.** Experimental researches on the nature of the bacteriophage, **1927**, 615.
- Prausnitz, P. H.** Glas- und Keramische-Filter (Review), **1933**, 250.
- Prebluda, H. J.** See Parks, W. G.
- Pregl, F.** Quantitative Organic Micro-Analysis, 2nd English Ed. (Review), **1930**, 776.
- Quantitative Organische Mikroanalyse, 3rd Ed. (Review), **1930**, 304.
- Preiss, W.** Determination of hydroquinone, especially in salt herrings, **1934**, 415.
- Preissecker, H.** See Linke, B.
- Prentice, J. H.** See Baird, J. C.
- See also Capper, N. S.
- Prescher, J., and Bohm, E.** Simplified test for the diastase content of honey, and detection of foreign honey by pollen analysis, **1932**, 108.
- Prescher, J., and Claus, R.** Examination of cacao butter for alkali and alkaline earth, **1926**, 199.

- Prescott, S. C.**, and **Winslow, C. A.** Elements of Water Bacteriology, 5th Ed. (Review), **1931**, 347.
- Preston, J. M.** Mounting media for microscopic work, **1930**, 416.
- Preuss, L. M.**, and **Others.** Sterol content and antirachitic activatibility of mould mycella, **1931**, 196.
- Preuss, L. M.**, **Peterson, W. H.**, and **Fred, E. B.** Gas production in the making of sauerkraut, **1929**, 57.
- Price, E. A.** See **Cocking, T. T.**
- Price, E. E.** Atomic Form, with special reference to the Configuration of the Carbon Atom (Review), **1928**, 183.
- Price, T. S.** Review of Photo-Processes in Gaseous and Liquid Systems by R. O. Griffith, **1930**, 72.
- Prickett, P. S.** See **Bills, C. E.**
- Prideaux, E. B. R.** Phosphorus. Vol. VI, Part 2 of *A Textbook of Inorganic Chemistry*, edited by J. N. Friend (Review), **1934**, 511.
- Potentiometric titration of ammonia, **1929**, 365.
- See also **Roper, E. C.**
- Prideaux, E. B. R.**, and **Winfield, F. T.** The determination of quinine, cinchonine and cinchonidine with the quinhydrone electrode, and the choice of end-points in alkaloidal titrations, **1930**, 561.
- Priem, L. A.**, **Peterson, W. H.**, and **Fred, E. B.** Studies of commercial sauerkraut, with special reference to changes in the bacterial flora during fermentation at low temperatures, **1927**, 356.
- Priest, G. W.** Determination of neutral oil in sulphonated oils. Committee Report, **1929**, 118.
- Priest, I. G.** See **Gibson, K. S.**
- Priest, M.** Appointed Public Analyst for Metropolitan Borough of Camberwell, **1930**, 383.
- Priester, R.** See **Waterman, H. I.**
- Priestman, J.** See **Hilditch, T. P.**
- Pring, M. E.**, and **Spencer, J. F.** Electrometric determination of copper. I, Müller and Rudolph's method, **1929**, 509. II, Application of Volhard's method to electrometric analysis, **1929**, 576; III, Application of bi-metallic electrodes, **1930**, 375.
- Pringsheim, M. H.** See **Ginsburg, S.**
- Pritchard, H.** See **Morgan, R. S.**
- Pritzker, J.** Acetylmethylcarbinol and diacetyl in wood vinegar, **1933**, 761.
- Distinction of wine vinegar from other vinegars, **1934**, 117.
- New acrolein reaction, **1928**, 396.
- Pritzker, J.**, and **Jungkunz, R.** Almond, apricot-kernel and peach-kernel oils, **1928**, 102.
- Analysis of vanillin and vanillin sugar, **1928**, 496.
- Deterioration of fats and oils and its detection, **1926**, 635.
- Horse fat, **1932**, 265.
- Natural and caffeine-free coffees, **1926**, 355.
- New arachis coffee substitute, **1932**, 786.
- Origin, occurrence and detection of 2,3-butylenglycol in wine and fruit wine, **1931**, 258.
- Pritzker, J.**, and **Jungkunz, R.** Quantitative examination of the Kreis rancidity reaction, **1929**, 547.
- Täufel and Thaler's reaction for ketone rancidity, **1934**, 48.
- Probert, M. E.** See **Fargher, R. C.**
- Proctor, F.** Chamomile (mayweed) and a taint in milk, **1926**, 527.
- Proctor, I. F.**, and **Mattick, A. T. R.** Alkaline milk and its detection by the brom-cresol purple test, **1926**, 197.
- Procter-Smith, H.** See **Grant, J.**
- Prodan, L.** See **Fairhall, L. T.**
- Proffitt, M. J.** See **Jackson, R. F.**
- Prophète, H.** Rose flower wax, **1927**, 102.
- Pruthi, H. S.** Importance of the various factors responsible for the death of fishes in polluted waters, **1927**, 427.
- Pryde, J.** Recent Advances in Biochemistry (Review), **1927**, 58.
- The ABC of Vitamins, **1929**, 314.
- Pucher, G. W.** See **Vickers, H. B.**
- Pucher, G. W.**, and **Day, H. A.** Colorimetric method for the determination of hydroxylamine, **1926**, 266.
- Pucher, G. W.**, **Leavenworth, C. S.**, and **Vickery, H. B.** Determination of total nitrogen of plant products in presence of nitrates, **1930**, 406.
- Pucher, G. W.**, **Vickery, H. B.**, and **Wakeman, A. J.** Determination of malic acid in plant tissue, **1934**, 714.
- Pugh, A. J.** See **Warren, R. G.**
- Pugh, W.** Conditions for determining antimony by the permanganate method, **1933**, 176.
- Pullen, N. D.** See **Gwyer, A. G. C.**
- Pummerer, R.** Entwicklung und Leistungen der Organischen Strukturlehre (Review), **1933**, 376.
- Puntambekar, S. V.** See **Krishna, S.**
- Puntambekar, S. V.**, and **Krishna, S.** Fat and oil from the seeds of *Actinodaphne Hookeri* Meissn., **1933**, 765.
- Fat from the seeds of *Vateria indica* Linn, **1933**, 620.
- Oil from the seeds of *Tectona grandis* (teak), **1933**, 765.
- Some Indian acorn oils, **1935**, 107.
- Purcell, R. H.** Review of Britton's *Hydrogen Ions*, 2nd Ed., **1932**, 543.
- Purdy, W. C.** See **Butterfield, C. T.**
- Purr, A.** Influence of vitamin C (ascorbic acid) on plant and animal amylases, **1934**, 710.
- Pyke, M.** A colorimetric method for the quantitative measurement of rancidity, **1935**, 515.
- Pyne, G.** See **Reilly, J.**
- Pyne, G. T.** The detection of viscogen in cream, **1930**, 747. See also list of Errata.
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- Quam, G. N., and Hellwig, A.** The copper content of milk, 1928, 542.
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- Rabaté, E., and Fleckinger, J.** Colour reaction of the proteins of the wheat corn, 1930, 334.
- Rabinowitsch, E.** Abegg's Handbuch der Anorganischen Chemie. Vol. IV, Die Edelgase (Review), 1928, 678.
- Rabinowitch, E., and Thilo, E.** Periodisches System (Review), 1930, 721.
- Rabinowitch, I. M.** Copper content of the urine of normal individuals, 1933, 358.
- Radley, E. G.** An improved crucible support, 1933, 339.
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- Rae, W. N., and Reilly, J.** Physico-Chemical Practical Exercises, 1934, 376.
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- Raesch, O.** See Müller, K.
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- Raiford, L. C., and Hilman, G. C.** New derivatives of vanillin and some of their reactions, 1927, 483.
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- Rakusin, M. A., and Braudo, K.** Comparative characterisation of chondrin and gluten, 1927, 240.
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- Ramann, E.** The Evolution and Classification of Soils (Review), 1928, 681.
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 — See also Schwarz, H.
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- Reif, G.** Detection of sorbitol in presence of dulcin and saccharin, 1934, 44.
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- Reif, W.** Micro-determination of copper by means of salicyl-aldoxime, 1931, 557.
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- Reilly, J., and Drumm, P. J.** Determination of carvone in dill oil, 1923, 209.
- Reilly, J., and Pyne, G.** The pigment produced by *Chromobacterium violaceum*, 1923, 51.
- Reilly, J., and Rae, W. N.** Physico-Chemical Methods (Review), 1934, 510.
- Reilly, J., Noonan, N., and Drumm, P. J.** Evaluation of the menthone content of peppermint oil, 1931, 702.
- Reilly, J., Rae, W. N., and Wheeler, T. S.** Physico-Chemical Methods (Review), 1926, 487.
- Reimers, F.** Quantitative determination of diaminoacridine in euflavine, 1935, 711.
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- Reis, F., and Chakmakjian, H. H.** Determination of iron in cow's milk and human milk, 1933, 39.
- Reiss, E.** Die Refraktometrische Untersuchung der Milch (Review), 1929, 127.
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 — Electrometric determination of zinc by ferrocyanide, 1927, 106.
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- Reznek, S.** See Callaway, J.
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- Rhead, E. L.** Metallurgy. An Elementary Textbook (Review), 1935, 647.
- Rhodes, J. E. W.** Volumetric determination of magnesium in magnesium chloride solutions, 1927, 365.
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- Rice, A. C., Fogg, H. C., and James, C.** Phenylarsonic acid as a precipitant for zirconium and thorium, 1926, 318.
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- Rice, F. O.** The Mechanism of Homogeneous Organic Reactions from the Physical-Chemical Standpoint (Review), 1928, 406.
- Richard, A.** Reactions of soya bean oil, 1929, 241.
- Richard, F.** Solubility of corrosive sublimate in ether, 1926, 636.
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- Richards, O. W.** Stimulation of yeast growth by thallium, a "bios" impurity of asparagine, 1932, 663.
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— Review of Ernst's *Fixation of Atmospheric Nitrogen*, 1929, 195.
— Review of Maxted's *Catalysis and its Industrial Applications*, 1933, 430.
— Surface Chemistry (Review), 1926, 598.
— See also Rideal, S.
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- Ridge, B. P., Parson, H. L., and Corner, M.** Chemical properties of some commercial Rayon yarns, 1933, 270.
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- Robinson, R.** The determination of small quantities of mercury in presence of organic and inorganic compounds, 1929, 145.
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— Review of Rakshit's *Association Theory of Solution and Inadequacy of Dissociation Theory*, 1932, 682.
— Review of Stewart's *Recent Advances in Physical and Inorganic Chemistry*, 6th Ed., 1931, 425.
— See also Britton, H. T. S.
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- Robinson, W. O.** Determination of organic matter in soils by means of hydrogen peroxide, 1927, 488.
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- Rodgers, T. S., Peck, J. R. S., and Jupe, M. H.** Lead poisoning in children (chemical mechanism of lead poisoning), 1934, 640.
- Rodillon, G.** Micro-determination of silica in tissues and in blood, 1934, 438.
- Roe, J. H.** Colorimetric method for the determination of fructose in blood and urine, 1934, 835.
- Roe, J. H., and Kahn, B. S.** Colorimetric determination of blood calcium, 1929, 181.
- Roe, J. H., Irish, O. J., and Boyd, J. I.** Preservation of blood for chemical analysis by the use of sodium fluoride, 1928, 105.
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- Rogers, A.** Editor of *Industrial Chemistry*, 4th Ed. Vol. I, 1926, 601.
- Rogers, C. H.** A Textbook of Inorganic Pharmaceutical Chemistry for Students of Pharmacy and Pharmacists (Review), 1930, 602.
- Rogers, H. W.** See Corey, R. B.
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- Rollet, A. P.** Colorimetric determination of nickel, 1926, 537.
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- Romeo, G., Galletti, N., and Amoroso, J.** Detection of false "sponge" essence of lemon prepared with machine-extracted essence, 1932, 785.
- Römer, F.** See Funk, H.
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- Ronzoni, E., and Waller-Lawrence, Z.** Determination of lactic acid in blood, 1927, 603.
- Roodenburg, N. M.** See Nellensteyn, F. J.
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- Rooney, T. E., and Stapleton, A. G.** Iodine method for the determination of oxides in steel, 1935, 637.
- Roos, L.** Measurement of colour in red wines, 1930, 453.

- Roper, E. C., and Prideaux, E. B. R.** Analysis of bifluorides, 1926, 370.
- Rosano, S. N.** Determination of fluorine in phosphorites by a simplified method, 1935, 781.
- Rosanow, S. N., and Kasarinowa, W. A.** Colorimetric determination of potassium, 1934, 200.
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- Rose, R. E.** Growth of the dyestuffs industry, 1926, 597.
- Rosedale, J. L.** See Plimmer, R. H. A.
- Rosedale, J. L., and Oliveiro, C. J.** Antineuritic vitamin. II, Properties of the "curative" substance, 1929, 248.
- Roseman, R.** See Thornton, W. M., Junr.
- Rosenbaum, C. K., and Walton, J. H.** Determination of the purity of acetic anhydride, 1930, 645.
- Rosenbaum, E.** See Dietzel, R.
- Rosenheim, O.** Specific colour reaction for ergosterol, 1930, 355.
— Sterol colour reactions in their relation to vitamin *A*, 1927, 423.
- Rosenheim, O., and Callow, R. K.** Colour reactions of sterols with nitric acid, 1931, 472.
- Rosenheim, O., and Drummond, J. C.** Delicate colour reaction for the presence of vitamin *A*, 1926, 93.
- Rosenheim, O., and Schuster, E.** New colorimeter based on the Lovibond colour system, and its application to the testing of cod-liver oil, and other purposes, 1928, 179.
- Rosenheim, O., and Webster, T. A.** Absorption spectrum of vitamin *A*, 1929, 764.
— Biological inertness of irradiated mycosterols other than ergosterol, 1929, 248.
— Colour tests suggested for vitamin *A*, 1927, 44.
— Nature of Fearon's colour reaction and its non-specificity for vitamin *A*, 1927, 242.
— Parent substance of vitamin *D*, 1927, 424.
— Photochemical production of vitamin *D* from ergosterol, 1927, 652.
— Relation of cholesterol to vitamin *D*, 1927, 293.
— Specificity of ergosterol as parent substance of vitamin *D*, 1928, 551.
- Rosenthal, E., and Erdélyi, J.** New colour test for the determination of vitamin *A*, 1934, 562.
— Remarks concerning the new colour reaction of vitamin *A*, 1935, 835.
- Rosenthal, E., and Szilard, C.** New method of determining the vitamin *A* content of blood, 1935, 563.
- Rosenthaler, L.** Beta-anthraquinone-monosulphonic acid as a microchemical reagent for alkaloids, etc., 1929, 351.
— Chemical characteristics of *Herba lobelia*, 1930, 142.
— Crystal formation by "salting out," 1935, 721.
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— Microchemical distinctions of essential oils, 1929, 362.
— Microchemical examination of glucosides, 1932, 63.
— Microchemical tests. VIII, 1933, 784; IX, 1934, 137; X, 1934, 721; XI, 1934, 774.
- Rosenthaler, L.** The Chemical Investigation of Plants (Review), 1931, 489.
— Two South American cinchona barks, 1929, 753.
- Ross, H. L., and Sehl, F. W.** Determination of free silica, 1935, 276.
- Ross, J. R., and Lucas, C. C.** New method for the determination of minute amounts of lead in urine, 1935, 833.
- Ross-Mackenzie, J.** A Standard Manual of Brewing and Malting and Laboratory Companion (Review), 1927, 370.
- Rossée, —, and Von Morgenstern, —.** Simplified colorimetric method for measuring the hydrogen ion concentration of small quantities of highly coloured or turbid solutions, 1927, 363.
- Rothéa, F.** Soya bean lecithin, 1934, 177.
- Rothenfusser, S.** Detection and determination of sulphur dioxide, 1929, 770.
— Detection of certain types of heated milk, 1931, 747.
— Detection of heated milk and a new method for the detection of pasteurisation, 1930, 758.
- Rothlin, H.** The reaction of cocaine hydrochloride solutions, 1931, 751.
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— Micro-determination of caffeine in coffee, 1930, 348.
- Rouhier, A.** See Perrot, E.
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- Rowaan, P. A.** Chemical evaluation of plant materials containing rotenone (derris root, tube root, etc.), 1935, 483.
- Rowaan, P. A., and Koolhaas, D. R.** Determination of citronellal in Java citronella oil, 1935, 633.
- Rowe, A. W.** See Phelps, E. P.
- Roy, A. C., and Dutt, S.** Composition of neem oil. The so-called margosic acid, 1930, 50.
- Rozeboom, J.** Detection of morphine in papaverine hydrochloride by means of iodic acid, 1935, 482.
— Distinction of chloroform and carbon tetrachloride, 1935, 560.
- Rubel, W. M.** Use of acridine dyestuffs for the determination of nitrites, 1931, 325.
- Rudge, E. A.** Decomposition of timber under industrial conditions, 1933, 772.
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- Rüdiger, —.** Preservation of milk for determination of the freezing-point, 1932, 578.
- Rüdiger, M., and Diemair, W.** Detection of fruit wine in grape wine, 1927, 599.

- Rudolfs, W., and Lackey, J. B.** Composition of water and mosquito breeding, 1929, 495.
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- Method of distinguishing jams made from fresh and dried plums and their mixtures, 1932, 106.
- Rueff, G.** See Berl, E.
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- Rundshagen, H.** Determination of citric acid and malic acid in tobacco, 1926, 645.
- Determination of nicotine in tobacco, 1926, 152.
- Rupe, H., and Wassilieff, N.** Apparatus for determining molecular weights by the boiling-point method, 1928, 510.
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- Rupp, E.** Iodimetric determination of ferric iron, 1932, 59.
- Rupp, E., and Hamann, G.** Determination of bismuth as metal, 1932, 193.
- Rupp, E., and Lewy, F.** Determination of free alkali in hypochlorite solutions, 1928, 509.
- Russell, A. S.** Air oxidation of titanous sulphate solution. Vanadous sulphate, a new and powerful reducing agent, 1926, 267.
- Volumetric determination of uranium, vanadium, copper and iron in uranium ores, 1926, 268.
- Russell, E.** Report of the Public Analyst for the City and County of Bristol for the year 1928, 1929, 591; for 1929, 1930, 685; for 1930, 1931, 599; for 1932, 1934, 30; for 1933, 1934, 751.
- Russell, Sir E. J.** Soil Condition and Plant Growth (Review), 1927, 257; 6th Ed., 1932, 344.
- Russell, H. N.** The Composition of the Sun, 1933, 126.
- Russell, S.** See McClendon, J. F.
- Russell-Wells, B.** Fats of brown sea-weeds, 1932, 472.
- See also Haas, P.
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- Rygh, A.** See Rygh, O.
- Rygh, O., and A.** Chemical investigations on the antiscorbutic vitamin. II, Narcotine and its derivatives as antiscorbutics, 1932, 188.
- Rygh, O., Rygh, A., and Laland, P.** Chemical investigations on the antiscorbutic vitamin. I. 1932, 187.
- S**
- Sabatié, A.** Determination of nicotine in commercial solutions and insecticides, 1931, 121.
- Saber, A. H.** Determination of senna stalk in senna, 1934, 635.
- Saber, A. H.** Quantitative determination of powdered linseed, 1935, 258.
- Senna stalk, its anatomy and detection in powdered, senna, 1934, 635.
- Sabetay, H.** See Sabetay, S.
- Sabetay, S.** Antimony trichloride as a reagent for double linkings, 1933, 712.
- Colour reaction of geranium oil and of commercial rhodinols, 1933, 418.
- Identification of primary phenylethyl alcohol in essential oils and mixtures of perfumes, 1929, 615.
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- See also Delaby, R.
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- Sabetay, S., and Bléger, J.** Determination of halogens in organic compounds, 1930, 713.
- Sabetay, S., and Sabetay, H.** Colour reaction of azulenogenic sesquiterpenes, 1934, 643.
- Sabetay, S., and Sivadjian, J.** Use of benzylic potassium hydroxide for the determination of acetyl groups in substituted acetamides, 1931, 475.
- Saccardi, P.** Sensitive reaction for carbon disulphide, 1926, 636.
- Sadgopal.** See Godbole, N. N.
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- Sadolin, E.** Normal occurrence of arsenic in fish and in cod-liver oil, 1929, 547.
- Sadusk, J. F., and Ball, E. G.** Volumetric determination of small quantities of iodine, 1934, 133.
- Sage, C. E.** Note on the examination of dried green mint, 1934, 535.
- Obituary of P. A. W. Self, 1935, 731.
- Review of Bentley and Driver's *Textbook of Pharmaceutical Chemistry*, 2nd Ed., 1933, 724.
- Review of *The British Pharmaceutical Codex*, 1934, 1934, 725.
- Review of *The Extra Pharmacopoeia*. Vol. II, 1935, 855.
- The possible effect of sulphur dioxide when used as a preservative for dried fruits, etc., 1931, 451.
- Sage, C. E., and Fleck, H. R.** The determination of meta- and ortho-cresols, 1932, 773; in mixtures of cresols, 1932, 567.
- The determination of volatile oils in herbs, spices and drugs, 1934, 614.
- Sahyun, M.** Determination of glycogen, 1934, 189.
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- St. John, J. L.** Growth on a synthetic ration which contains small amounts of sodium, 1928, 348.
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- Sakuma, I., and Momose, I.** Colouring substances of cane sugar. I, 1935, 479.
- Salamon, M. S.** Data used in graph for beeswax? 1926, 293.
- Review of Atack's *The Chemists' Year Book*, 1926, 11th Ed., 1926, 322.

- Salamon, M. S.** See also Bennett, C. T.
— See also Marshall, S. C.
- Sale, Jo W.** See Badger, C. A.
— See also Wilson, J. B.
— See also Winkler, W. O.
- Sale, J. W., and Wilson, J. B.** Distribution of volatile flavour in grapes and grape juices, 1927, 39.
- Saletore, S. A.** See Hilditch, T. P.
- Salkin, B.** Determination of phosphorus in alloys, 1927, 305.
- Salmon, W. D.** Two active factors in the vitamin B complex, 1927, 485.
— See also Guerrant, N. B.
- Salmon, W. D., and Miller, E. R.** Water-soluble vitamin content of the velvet bean, 1926, 260.
- Salmon, W. D., Guerrant, N. B., and Hays, I. M.** Existence of two active factors in the vitamin B complex. II, 1928, 233.
- Salmonsén, E. M.** Bibliographical Survey of Vitamins, 1650–1930 (Review), 1933, 186.
- Salomon, H., and Karrer, P.** Monascin, a colouring matter from "red" rice, 1932, 254.
- Salt, H. B.** Colorimetric determination of uric acid in urine, 1932, 119.
— See also Davis, W. A.
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- Sampey, J. R., and Reid, E. E.** Analytical reactions of alkyl mercaptans in benzene solution, 1932, 665.
- Sampietro, C., and Täufel, K.** Distinction between aldohexoses and ketohexoses by the resorcinol reaction, 1933, 360.
- Samuel, B. L., and Shockey, H. H.** Rapid photometric method for the determination of small quantities of lead, 1934, 306.
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- Sanchez, J. A.** Colorimetric micro-determination of morphine in opium and its preparations, 1935, 419.
— Detection and determination of novocaine and stovaine, 1934, 634.
— New colour reaction of quinine, quinidine and cupreine and its application to the determination of quinine, 1935, 184.
— New method for the determination of pilocarpine and its salts, 1935, 420.
— New pyrogenic reaction for malic, tartaric and citric acids, 1927, 358.
— Reaction for distinguishing primary cyclic amines and its application to medicines, 1932, 391.
— Use of iodine as a differential reagent between ammonium salts, amines and amides, 1927, 363.
— See also Krumholz, P.
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- Sanchis, J. M.** Determination of fluorides in natural waters, 1934, 437.
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- Sand, H. J. S.** New apparatus for electrolytic analysis, 1929, 275.
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- Sanders, G. P.** Determination of the calcium, magnesium and acid-soluble phosphorus in milk by means of trichloroacetic acid filtrates, 1931, 401.
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- Sandin, R. B., and Margolis, E. T.** Determination of mercury in iodinated organic compounds, 1935, 841.
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- Sandrus, H. J., and Willard, M. L.** Microchemical identification of caffeine, 1933, 117.
- Sandstedt, R. M.** See Blish, M. J.
- Sandstrom, W. M.** Revision of Morrow's *Biochemical Laboratory Methods*, 1935, 504.
- Sandved, K.** Potentiometric titration of tin with potassium bromate, 1927, 2.
- Sankaran, G.** See Newcome, C.
- Sant, G., and Stahel, —.** Surinam chaulmoogra oil, 1934, 703.
- Santangelo, E.** Dizionario Pratico degli Alimenti (Review), 1933, 123.
- Santiago, S., and West, A. P.** An odoriferous oil and two new linolic tetrabromides from Philippine lumbang oil, 1927, 300.
- Sapadinsky, M. B.** Colorimetric method for determining ethylene chlorhydrin, 1928, 556.
- Sarazin, J.** See Fosse, R.
- Sarkar, P. C.** See Goswami, H. C.
- Sartori, A.** Detection of mercury poisoning after burial, 1930, 524.
— Poisoning by chloroform during narcosis, 1931, 331.
— Poisoning by methyl alcohol, 1931, 412.
— Poisoning by seeds of *Datura stramonium* (thorn-apple), 1931, 59.
- Sartori, E.** See Carrasco, O.
- Sartorius, F., and Ottemeyer, W.** Use of active charcoal for the absorption of caffeine, particularly from coffee infusions, 1930, 140.
- Sartory, A. and R., Meyer, J., and Arnold, F.** Comparative estimations of phosphorus and potassium in an arable soil by Hilgard's chemical method. Neubauer's biological method, and Niklas' method with *Sterimato-cystis nigra*, 1935, 488.
- Sarver, L. A.** Determination of ferrous iron in silicates, 1927, 496.
— Volumetric determination of cobalt by means of ferrous sulphate and potassium dichromate, 1933, 639.
- Sarver, L. A., and Kolthoff, I. M.** Diphenyl-amininesulphonic acid as an indicator, 1931, 686.
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- Saunders, B. C.** Identification of amino acids by means of 3 : 5-dinitro-benzoyl chloride, 1934, 568.

- Saunderson, H.** See Trotman, S. R.
- Savage, W. G.** Recent advances in the bacteriological examination of food and water, 1927, 117.
- Review of Prescott and Winslow's *Elements of Water Bacteriology*, 5th Ed., 1931, 347.
- Savoire, R.** See Tassilly, E.
- Sayers, R. R.** See Yant, W. P.
- Sayers, R. R., and Yant, W. P.** Pyrotannic acid method for the determination of carbon monoxide in blood and in air, 1926, 99.
- Sazerac, R., and Pouzergues, J.** Detection of small quantities of bismuth with *o*-hydroxyquinoline, 1932, 737.
- Scanlan, J. T., and Reid, J. D.** Benzoyl auramine G. A new indicator for Kjeldahl determinations, 1935, 339.
- Schaarschmidt, A.** Application of adsorbing agents to the removal of poisonous matters from tobacco smoke, 1933, 44.
- Detection and separation of hydrocarbons with branched chains from natural or artificial mixtures of hydrocarbons, 1931, 549.
- Schachkeldjan, A.** Colorimetric determination of copper, 1930, 655.
- Schachowa, M. A.** See Tananaeff, N. A.
- Schadendorff, E., and Zacherl, M. K.** Microdetermination of carbon by the wet method. (Part 2) Combustion of liquids, 1932, 336.
- Schaeffer, H. J.** Faught test for acetone, 1927, 169.
- Schafer, E. G. E.** See Bird, J. C.
- Scharrer, K.** Determination of chlorates and perchlorates, 1926, 370.
- Scheibe, G., Mark, H., and Ehrenberg, R.** Physikalische Methoden der Analytischen Chemie. Vol. I (Review), 1935, 63.
- Schelek, E., and Gervay, V.** Determination of hexamethylenetetramine in pharmaceutical preparations, 1933, 621.
- Scherrer, J. A.** Determination of tin in irons and steels, 1932, 473.
- Scheunert, A., and Schieblich, M.** Vitamin content of beer, 1927, 722.
- Vitamin A content of the herring, 1935, 112.
- Schick, K.** See Szebellédy, L.
- Schidrowitz, P.** Review of De Visser's *The Calender Effect and the Shrinking Effect of Unvulcanised Rubber*, 1927, 256.
- Review of Schotz's *Synthetic Rubber*, 1926, 653.
- Review of Stevens and Porritt's *Rubber and its Uses in Building Works*, 1926, 434.
- Review of Weber's *The Chemistry of Rubber Manufacture*, 1926, 433.
- Schieblich, M.** See Scheunert, A.
- Schiff, F.** Medico-legal significance of blood groups, 1930, 59.
- Schilb, T. W.** See Moss, H. V.
- Schimmel & Co.** Detection of small quantities of alcohol in oil of cassia, 1928, 556.
- Schimpf, H. W.** Essentials of Volumetric Analysis (Review), 1927, 368.
- Schischiroff, I.** See Powarnin, G.
- Schlegel, J. W., and Steuber, A. H.** Some sources of error in the colorimetric determination of pH values, 1927, 492.
- Schleicher, A., and Clermont, J.** Quantitative spectrographic analysis, 1932, 66.
- Schlesinger, H. I., and Van Valkenburgh, H. B.** Structure of ferric thiocyanate, 1931, 416.
- Schlietz, W.** See Karrer, P.
- Schloemer, A.** Micro halogen determination without combustion, 1933, 246.
- See also Brussoff, A.
- Schlutz, F. W., and Ziegler, M. R.** Spectroscopic observations on cod-liver oil. II. Absorption bands of cholesterol, 1926, 586.
- Schlutz, F. W., Ziegler, M. R., and Morse, M.** Influence of irradiation upon oxidation products of cholesterol, 1927, 423.
- Schmalfluss, H., and Barthmeyer, H.** Detection of diacetyl and methyl-acetyl carbinol in foodstuffs, etc., 1932, 389.
- Schmalfluss, H., and Werner, H.** Detection and determination of a proprietary oil (Sonderöl) added to edible fats, 1932, 784.
- Schmidt, A.** Differentiation of spirit vinegar and artificial vinegar, 1935, 705.
- Schmidt, C. L. A.** See Rawlins, L. M. C.
- Schmidt, H.** New procedure for the separation of alcohols and phenols from oil mixtures, 1929, 57.
- Schmidt, J.** A Textbook of Organic Chemistry (Review), 1926, 485; 2nd English Ed., 1932, 593.
- *Lehrbuch der Organischen Chemie*, 4th Ed. (Review), 1930, 300.
- Schmidt, W. A.** See Beck, K.
- Schmidt-Nielsen, S. and S.** Some liver oils yielding a strong colour reaction with antimony trichloride, 1930, 286.
- Schmitt, F. O.** See Monaghan, B. R.
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- Schmiz, E.** Tests for small quantities of free ammonia or alkali (hydroxyl-ions), 1928, 111.
- Schneider, A.** Biological method of testing santonin and allied anthelmintics, 1928, 661.
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- Schneider, L.** See Diemair, W.
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- Schnellbach, W.** Water in strychnine sulphate, 1929, 672.
- Schnetka, M.** Pasteurised milk, 1935, 478.
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- Schnoutka, —.** See Travers, A.
- Schoeller, W. R.** Detection of small quantities of tantalum and niobium, 1934, 367.
- Determination of platinum in platinum ore, 1930, 550.
- Digallic acid as a reagent for earth acids, 1927, 702.
- Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. XV, A new method for the separation of tantalum and niobium from titanium and zirconium (I: Qualitative), 1929, 453. XIX, Laboratory notes on analytical technique, 1931, 304. XXIV, An improved method for the separation of tantalum and niobium, 1932, 750.
- Review of Ephraim's *A Textbook of Inorganic Chemistry*, 1926, 651; 2nd English Ed., 1934, 309.
- Review of Friend's *A Textbook of Inorganic Chemistry*, 1934, 511.
- Review of G.D.M.B. *Report on Analysis of Non-Ferrous Metals, Ores, etc.*, 1926, 324.

- Schoeller, W. R.** Review of Hillebrand and Lundell's *Applied Inorganic Analysis*, 1930, 351.
- Review of Holleman's *A Textbook of Inorganic Chemistry*, 7th Ed., 1928, 184.
- Review of Jamieson's *Volumetric Iodate Methods*, 1926, 542.
- Review of McAlpine and Soule's *Qualitative Chemical Analysis*, 1934, 374.
- Review of Mitchell and Ward's *Modern Methods in Quantitative Chemical Analysis*, 1933, 63.
- Review of Rabinowitsch's *Abegg's Handbuch der Anorganischen Chemie*. Vol. IV, Sec. 111, Part 1, *Die Edelgase*, 1928, 678.
- Review of Rhead's *Metallurgy*, 1935, 647.
- Review of Smith's *Analytical Processes*, 1930, 156.
- Review of Thornton's *Titanium*, 1927, 736.
- Review of Treadwell-Hall's *Analytical Chemistry*. Vol. II, *Quantitative*, 1929, 258; Vol. I, 7th English Ed., 1931, 349.
- Review of Ware's *Analytical Chemistry*, 1932, 413.
- Review of Washington's *The Chemical Analysis of Rocks*, 4th Ed., 1931, 278.
- The separation of iridium from iron, 1926, 392. Erratum, 1926, 455.
- See also Powell, A. R.
- See also Waterhouse, E. F.
- Schoeller, W. R., and Deering, E. C.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. IX, The separation of titanium from tantalum and niobium, 1927, 625.
- Schoeller, W. R., and Jahn, C.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. VI, The precipitation of the earth acids by sodium compounds, 1926, 613; VII, The precipitation of tungstic acid by tannin. VIII, The separation of tungsten from tantalum and niobium, 1927, 504. XIV, A new method for the separation of small quantities of tantalum and niobium from titanium, 1929, 320. XXI, A reliable method for the quantitative separation of titanium from tantalum and niobium, 1932, 72. XXVI, The interference of tungsten in earth-acid determinations, 1934, 465.
- Schoeller, W. R., and Powell, A. R.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. X, The separation of silica from the earth acids. XI, The precipitation of titanium by tannin, 1928, 258. XXIII, The quantitative separation of tantalum, niobium, titanium and zirconium, and a new analytical grouping, 1932, 550.
- Schoeller, W. R., and Waterhouse, E. F.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. XII, Observations on the pyrosulphate-hydrolysis method, 1928, 467. XIII, New method for separation of zirconium and hafnium from tantalum and niobium, 1928, 515. XXVIII, The separation of the rare earths from the earth acids, 1935, 284.
- Schoeller, W. R., and Webb, H. W.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. XVI, Observations on tartaric hydrolysis. XVII, Quantitative precipitation of the earth acids and certain other oxides from tartrate solution, 1929, 704. XX, The separation of tin from tantalum and niobium, 1931, 795. XXV, The separation of uranium from tantalum, niobium and titanium, 1933, 143. XXVII, Observations on manganese, and the analysis of tantalite, 1934, 667.
- Schoen, M.** The Problem of Fermentation: The Facts and Hypotheses (Review), 1929, 440.
- Schoen, M. J., and Rinse, J.** Distinction of pigments in ultra-violet light, 1929, 684.
- Schoenheimer, I. R., and Rittenberg, D.** Deuterium as an indicator in the study of intermediary metabolism, 1935, 770.
- Schoenheimer, R., and Sperry, W. P.** Micro method for the determination of free and combined cholesterol, 1934, 778.
- Schoetzow, R. E.** See Green, L. W.
- Schöninger, W.** See Moser, L.
- Schoonover, I. C.** See Furman, N. H.
- Schoorl, N.** Caffeine-salicylic acid as a molecular compound, 1929, 550.
- Colour reaction of pyrimidone, 1935, 560.
- Distinction between chloroform and carbon tetrachloride, 1935, 626.
- Fluorescence reaction of β -naphthol, 1931, 332.
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- Schöpp, K.** See Karrer, P.
- Schormuller, J.** See Fink, H.
- Schotz, S. P.** Synthetic Rubber (Review), 1926, 653.
- Schreiber, N. E.** See Booth, H. S.
- Schreiber, N. E., Sollman, T., and Booth, H. S.** Quantitative determination of mercury in urine and faeces, and the influence of medication, 1928, 447.
- Schrempf, A., and Weidlich, G.** Determination of the age of eggs in the summer months, 1933, 350.
- Schrenk, H. H.** See Kemmerer, G.
- See also Patty, F. A.
- Schrenk, W. T., and Browning, B. L.** Electro-metric determination of tellurium, 1926, 162.
- Volumetric determination of selenium and tellurium, 1926, 647.
- Schrenk, W. T., and Ode, W. H.** Determination of silica in the presence of fluorspar, 1929, 771.
- Schröder, K.** See Fresenius, L.
- Schroeder, W. C.** Direct titration of sulphate, 1934, 134.
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- Schroeder, W. F., and Edelman, D.** Composition of fresh and cured hams, 1926, 249.
- Schuette, H. A.** See Roberts, W. A.
- See also Stout, A. W.
- Schuette, H. A., and Chang, C. Y.** Hazelnut (filbert) oil, 1933, 620.
- Schuette, H. A., and Enz, W. W. F.** Expressed Brazil nut oil, 1931, 669.
- Schuette, H. A., and Huebner, E. O.** Daily variations in the freezing-point of milk, 1934, 181.

- Schuette, H. A., and Remy, K.** Degree of pigmentation and its probable relationship to the mineral constituents of honey, **1932**, 578.
- Schuette, H. A., and Smith, M. P.** Isopropyl alcohol as a substitute for ethyl alcohol in the determination of the acid values of fats and oils, **1927**, 101.
- Schuette, H. A., and Templin, V.** Application of formol titration to honey, **1930**, 282.
- Schuette, H. A., Cowley, M. A., and Chang, C. H.** Coffee-bean oil, **1934**, 830.
- Schuette, H. A., Thomas, R. W., and Duthey, M.** Brazil nut oil, **1930**, 762.
- Schugowitsch, A.** Determination of extractable materials in coffee, **1928**, 108.
- Schulek, E.** α -Naphthoflavone as an indicator for bromate titrations, **1935**, 718.
- Schulek, E., and Dözsa, A.** Iodimetric determination of chromium, **1931**, 832.
- Schulek, E., and Floderer, S.** Determination of mercury in galenicals, and its separation from bismuth, **1934**, 484.
- Schulek, E., and Vastagh, G.** Determination of boric acid in silicates, **1932**, 335.
- Schulze, G.** See Berg, P.
- Schumacher, E. E., and Ferguson, L.** Apparatus for measuring the diffusion of gases and vapours through membranes, **1927**, 253.
- Schumb, W. C.** See Severyns, J. H.
— See also Simpson, S. G.
- Schupp, O. E.** See Buehrer, T. F.
- Schuster, C.** Use of camphor in cryoscopy for the determination of the molecular weight of arsenic acids, **1934**, 508.
- Schuster, E.** See Rosenheim, O.
- Schuster, G.** Action of Nessler's reagent on some ketonic alcohols and ketonic acids, **1935**, 189.
— Adulteration of cocoa butter. Determination of the azelaic acid value, **1933**, 763. Determination of the "azelaic acid" values of palm and illipé butters, **1934**, 350.
— Composition of illipé butter, **1933**, 42.
— New method for the separation of nickel and cobalt, **1931**, 133.
— Oxidation of official castor oil by potassium permanganate. Study of triazelain, **1931**, 188.
— See also Bougault, J.
- Schut, W.** Formol titration number as a means of evaluating fruit juices, fruit-lemonade syrups, jams and wines, **1935**, 557.
— See also Jansen, J. D.
- Schutt, K.** See Moser, L.
- Schwaibold, J.** Determination of iodine (halogen) in organic matter, **1929**, 185.
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- Schwarz, H., and Rappaport, F.** Micro gas analysis and its applications, especially in biological work (collected references), **1934**, 138.
- Schwarz, K.** A simple tapless micro-burette, **1933**, 422.
— Micro-potentiometric titration. I, Titration in macro-drops, **1934**, 849.
- Schwarzenbach, G.** See Treadwell, W. D.
- Schweitzer, H.** Electrometric determinations in tannin solutions, **1933**, 496.
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- Schwicker, A.** Iodimetric determination of thiocyanates, **1929**, 493.
— Volumetric determinations by iodate, **1929**, 493.
- Sciver, A.** Losses in meat on cooking, **1934**, 536.
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- Scott, A.** Restoration of museum objects, **1932**, 478.
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- Scott, A. W.** Delicate test for mercury in systematic qualitative analysis, **1930**, 216.
- Scott, D. A.** Further investigation of the chemical properties of insulin, **1926**, 96.
— See also Fisher, A. M.
- Scott, E. W., and Henne, A. L.** Titration of fluorine in biological materials, **1935**, 831.
- Scott, K. J. L.** See Maile, W. C. D.
- Scott, L. B.** New method for the determination of fructose in blood, **1935**, 562.
- Scott, N. D.** See Conant, J. B.
- Scott, W. E.** See Robinson, P. L. L.
- Scott, W. M.** Food poisoning due to eggs, **1930**, 595.
- Scott, W. W., and Webb, S. K.** Determination of minute amounts of boron in soils, **1932**, 400.
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- Scribner, B. W., and Brode, W. R.** Modified method for determination of the copper number of paper, **1928**, 55.
- Seaber, W. M.** Barium as a normal constituent of Brazil nuts, **1933**, 575.
- Seaber, W. M., and Marshall, W.** Abnormal aniseed oils and B.P. requirements, **1931**, 605.
- Searle, H. E., LaQue, F. L., and Dohrow, R. H.** Metals and wines, **1934**, 631.
- Searle, V. H. L.** See Newman, F. H.
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- Seidell, A., and Birckner, V.** Isolation of the antineuritic vitamin, **1931**, 547.
- Seidenberg, A.** Chlorine in bleached flour, **1926**, 150.
— Determination of chlorine in bleached flour, **1928**, 342.
- Seidenberg, E.** See Friedberger, E.
- Seidlin, S. M.** See Flinn, F. B.
- Seil, G. E.** Determination of hydrocyanic acid in gaseous mixtures, **1926**, 471.
- Seiler, F.** Proportion of tartaric acid to free acid in natural Moselle, Saar and Ruhr wine-musts for the years 1930 and 1931, **1932**, 720.
- Sekiguchi, H.** See Ueno, S.
- Self, P. A. W., and Corfield, C. E.** Determination of total alkaloids in cinchona bark, **1931**, 52.

- Self, P. A. W., and Rankin, W. R.** Quantitative methylation of theobromine and theophylline, and the determination of these substances in theobromine sodium salicylate and theophylline sodium acetate, **1931**, 674.
- Selivounoff, E.** Detection and determination of carbon disulphide in air, **1929**, 488.
- Seltz, H., and Silverman, L.** Determination of acidity of oils and fats by the quinhydrone electrode in non-aqueous solutions, **1930**, 210.
- Semerano, G.** Il Polarografo (Review), **1933**, 64.
- Semichon, L., and Flanzky, M.** Acid constituents of wines. II, **1932**, 109.
- Application of chromic oxidation to certain alcohols, **1932**, 664.
- Determination of lactic acid in wines and fruit juices, **1932**, 721.
- Determination of succinic acid in wines and other fermented liquids, **1932**, 721.
- Grape pectins and their influence on wines, **1926**, 523.
- Organic acids of grape juice. (Presence of glyoxylic acid), **1933**, 552.
- The clearing of sugar solutions (wines) by mercuric salts, **1926**, 352.
- Sen, D. L.** See Ahmad, N.
- Sen, K. B.** See Spencer, E.
- Sequin, L.** See François, M.
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- Serger, H.** Chlorinated drinking water and its use in the preparation of canned foods, **1926**, 362.
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- Seth, G. L.** See Dhingra, D. R.
- Severyns, J. H., Wilkinson, E. R., and Schumb, W. C.** Use of metallic lithium in the determination of nitrogen, etc., in inert gases, **1932**, 796.
- Sewell, J. G.** See Bisson, C. S.
- Sexton, W. A.** Colour reaction of substances containing vitamin *D*, **1928**, 667.
- Seyewetz, A.** Fluorescence of colouring matters in ultra-violet light, **1929**, 309.
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- Work on micro-structure of coal, **1934**, 34, 36.
- Shaffer, P. A.** See Friedemann, T. E.
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- Method for the quantitative determination of indoxyl compounds in urine, **1933**, 170.
- Sharma, B. S.** Determination of traces of iron by photochemical and colorimetric methods, **1930**, 67.
- Sharp, B. B.** Toxic effects of methyl chloride gas, **1930**, 291.
- Sharp, P. F.** Detection of washed, abraded and oiled eggs, **1932**, 657.
- Sharp, P. F., and McInerney, T. J.** Colorimetric determination of the hydrogen ion concentration of milk, whey and cream, **1927**, 36.
- Relation of the hydrogen ion concentration to the titrable acidity of milk, **1927**, 715.
- Sharp, P. F., and Powell, C. K.** Increase in the pH value of white and yolk of hens' eggs, **1931**, 322.
- Shaw, A.** The determination of free silica in coal-measure rocks, **1934**, 446.
- Shaw, E. H., Junr., and Reid, E. E.** Quantitative estimation of selenium in organic compounds, **1927**, 724.
- Shaw, J. A.** Determination of phenols, **1929**, 615.
- Shaw, M. M.** See Kramer, M. M.
- Shaw, P. A.** Colorimetric determination of thallium, **1933**, 358.
- Shaw, T. B., and Frederick, R. C.** Freshly-ground coffee and "blown" tins, **1926**, 368.
- Shay, F. G.** See Porter, F. R.
- Shead, A. C.** Alkali earth metals in saccharate solutions and their use in alkalimetry, **1928**, 237.
- Shead, A. C., and Heinrich, B. J.** Determination of calcium and magnesium in Dolomitic limestones by means of saccharate solutions, **1931**, 65.
- Shead, A. C., and Smith, G. F.** Decomposition of refractory silicates by fused ammonium fluoride and its application to the determination of silica in grass sands, **1931**, 274.
- Shealy, A. L.** See Becker, R. B.
- Sheehan, H. L.** See Kay, W. W.
- Shelberg, E. F.** See Tabern, D. L.
- Sheldon, C. C.** See Brown, J. B.
- Shepherd, F. M. E.** See Manning, A. B.
- Sheppard, S. E., and Hudson, J. H.** Determination of labile sulphur in gelatin and proteins, **1930**, 214.
- Sherman, E.** See Hess, A. F.
- Sherman, H. C., and Axtmayer, J. H.** Quantitative study of the problem of the multiple nature of vitamin *B*, **1927**, 721.
- Sherman, H. C., and Cammack, M. L.** Quantitative study of storage of vitamin *A*, **1926**, 360.
- Sherman, H. C., and Hessler, M. C.** Quantitative differentiation of vitamins *A* and *D*, **1927**, 425.
- Sherman, H. C., and Smith, S. L.** The Vitamins, 2nd Ed. (Review), **1931**, 491.
- Sherman, H. C., and Stiebeling, H. K.** Quantitative differentiation of vitamins *A* and *D*, **1930**, 766.
- Quantitative studies of responses to different intakes of vitamin *D*, **1929**, 674.
- Sherman, H. C., and Whitsitt, M. L.** Study of the effect of nitrous acid upon components of the vitamin *B* complex, **1931**, 197.
- Sherman, H. C., and Woods, E.** Determination of cystine by means of feeding experiments, **1926**, 154.
- Sherman, H. C., Quinn, E. J., Day, P. L., and Miller, E. H.** Relative stability of vitamin *A* from plant sources, **1928**, 504.
- Sherman, W. C.** See Elvehjem, C. A.
- Sherman, W. C., Elvehjem, C. A., and Hart, E. B.** Further studies on the availability of iron in biological materials, **1935**, 49.
- Sherratt, J. G.** Appointed Public Analyst and Agricultural Analyst for County Borough of Warrington, **1930**, 277.
- Water in bone meal and in meat and bone meal, **1935**, 170.

- Shibata, Y., and Inoue, T.** Spectroscopic method of studying the formation of complex salts in dilute solution. Part 2, **1928**, 675.
- Shimada, K.** Colorimetric method for copper and manganese, **1933**, 496.
- Shipp, H. L.** See McCance, R. A.
- Shishacow, N. A.** Electrometric analysis of ferrous sulphate solutions, **1935**, 83.
- Shockey, H. H.** See Samuel, B. L.
- Shohl, A. T.** Pipette for micro-analysis, **1928**, 241.
- Shohl, A. T., and Bennett, H. B.** Micro method for the determination of potassium as iodoplatinate, **1928**, 559.
- Shorland, F. B.** Aluminium as an index of soil contamination, **1935**, 467.
— Determination of aluminium in pasture-grasses, etc., **1934**, 565.
— See also Grimmett, R. E. R.
- Short, G. R. A.** Assay of drugs yielding essential oils, **1931**, 604.
- Short, W. F.** See Hosking, J. R.
- Shrewsbury, C. L., and Kraybill, H. R.** Carotene content, vitamin A potency, and antioxidants of butter-fat, **1933**, 631.
- Shrewsbury, H. S.** Instability of precipitin antisera in the tropics, **1929**, 29.
— Report of the Government Analyst for Trinidad and Tobago for the year 1925, **1926**, 462; for 1932, **1933**, 696; for 1933, **1934**, 755; for 1934, **1935**, 825.
— Sources of albumin in ancient Egypt, **1926**, 624.
— The precipitin test for blood, **1928**, 380.
— The relation of the Manley and Reichert figures for butter analysis, **1927**, 388.
- Shrewsbury, J. F. D.** Review of Henrici's *Molds, Yeasts and Actinomyces*, **1930**, 774.
- Shriner, R. L.** See Anderson, R. J.
- Shriner, R. L., and Fuson, R. G.** The Systematic Identification of Organic Compounds (Review), **1935**, 852.
- Shriner, R. L., Nabenhauer, F. P., and Anderson, R. J.** Composition of maize wax, **1927**, 420.
- Shukla, S. N.** See Walker, O. J.
- Shupe, I. S.** Detection and determination of 2:4-dinitrophenol in tablets and capsules, **1935**, 768.
- Shutt, F. T.** Milk of the American buffalo, **1932**, 454.
— Report of the Dominion Chemist for Canada for the year ending 31st March, 1925, **1926**, 519; for 1926, **1927**, 537; for 1927, **1928**, 596; for 1929, **1930**, 389; for 1930, **1932**, 34.
— The examination of Canadian sprayed apples for arsenic, **1926**, 291.
- Shutt, W. J.** Review of Reilly, Rae and Wheeler's *Physico-Chemical Methods*, **1926**, 487.
- Siddappa, S.** See Manjunath, B. L.
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- Sidvadjan, J.** Identification of corynanthine, **1932**, 467.
- Sieber, W.** Differentiation of raw and bleached cotton in mixtures, **1928**, 557.
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- Signer, E.** Romijn's formaldehyde titration, **1930**, 208.
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- Silsbee, C. G.** See Jackson, R. F.
- Silva, S. S.** See Hoyle, E.
- Silverman, L.** See Seltz, H.
- Simmer, A.** See Grossfeld, J.
- Simmonet, H.** See Belloc, G.
- Simmons, W. H.** Adulterated cananga oil, **1934**, 644.
— Linaloe oil, Mexican and Indian, **1935**, 116.
— Review of Allen's *Commercial Organic Analysis*, 5th Ed. Vol. IV, **1926**, 320.
— Review of Ashworth's *The Analysis of Oil for Production of Lubricants*, **1934**, 442.
— Review of Bennett and Cocking's *The Science and Practice of Pharmacy*, **1933**, 647.
— Review of Evans's *Lubricating and Allied Oils*, **1933**, 426.
— Review of Maunier's *Les Plantes à Parfumes des Colonies Françaises*, **1929**, 129.
— Review of Poucher's *Perfumes, Cosmetics and Soaps*, 2nd Ed. Vol. I, **1926**, 275; Vol. II, **1927**, 109; 3rd Ed., Vols. I and II, **1931**, 348; 4th Ed., Vol. II, **1933**, 251.
— Review of Stanislaus and Meerbott's *American Soap-Makers' Guide*, **1929**, 378.
— Soap (Review), **1932**, 484.
- Simmons, W. H., and Hills, C. A.** Apparatus for the separation and measurement of steam distillates, **1933**, 396.
— The oil from the glands of the musk-rat, **1933**, 154.
- Simpkin, N., Sinnatt, F. S., and Associates.** Coal and Allied Subjects: Compendium II (Review), **1927**, 178.
- Simpson, E. S.** Report of the Government Analyst for Western Australia on the work of the Chemical Branch, Mines Department, for the year 1933, **1934**, 824.
- Simpson, I. A.** Studies in Vitamin B₁: Concentration from Rice Polishings, **1931**, 698.
- Simpson, S. G., and Schumb, W. C.** Determination of zirconium by means of selenious acid, **1931**, 337.
— Determination of zirconium in ores by the selenite-phosphate method, **1935**, 273.
— Determination of zirconium in steels, **1933**, 497; by selenious acid, **1933**, 243.
- Simpson, T. W.** See Wood, E. C.
- Sinclair, R. G.** Metabolism of the phospholipids. The passage of elaidic acid into tissue phospholipids, **1935**, 832.
- Sinclair, St. J. C. O.** Report of the Chief of the Division of Chemistry, Union of South Africa, for the year ended 30th June, 1933, **1935**, 101.
- Singer, J.** See Moser, L.
- Singh, H.** See Krishna, S.
- Singleton, W., and Jones, B.** Some effects of the addition of tellurium to lead, **1933**, 366.
- Sinka, A.** New method for the separation of lithium from potassium and sodium, **1930**, 598.
- Sinnatt, F. S.** See Manning, A. B.
— See also Simpkin, N.
- Sinozaki, H.** Potentiometric titration of sodium and calcium cyanamides, **1933**, 491.
- Sinton, F. C.** Determination of emetine, **1931**, 751.
- Sisley, J. P.** See Wahl, A.

- Sisley, P., and David, M.** Determination of nitrogen by the Kjeldahl method, applied to the analysis of colouring matters and intermediates, **1929**, 434.
— "Direct Green-B." A new sensitive reagent for copper, **1931**, 132.
- Sitharaman, M. V.** See Dey, B. B.
- Sivadjian, J.** Chloranil as a differential reagent for amines, **1935**, 425.
— New colour reaction of ephedrine, **1930**, 763.
— See also Sabetay, S.
- Skau, E. L., and Newell, I. L.** Rapid volumetric determination of sulphur in coal and coke, **1933**, 499.
- Skellon, J. H.** Preparation and properties of highly purified oleic acid, **1931**, 415.
- Skene, M.** Review of Ballard's *The Elements of Vegetable Histology*, 2nd Ed., **1923**, 187.
— Review of Godwin's *Plant Biology*, **1930**, 778.
— Review of Rosenthaler's *The Chemical Investigation of plants*, **1931**, 489.
— See also Nierenstein, M.
- Skinner, J. T., and Peterson, W. H.** Determination of manganese in animal materials, **1930**, 640.
— Iron and manganese content of feeding stuffs, **1928**, 670.
- Skinner, W. W.** See Browne, C. A.
— See also Griffin, S. W.
- Skrimshire, G. H.** See Allport, N. L.
- Sladden, A. F.** Silica content of lungs, **1933**, 775.
- Slade, R. E.** Review of Tongue's *The Design and Construction of High-Pressure Chemical Plant*, **1934**, 513.
- Slansky, P.** Detection of nitrocellulose in coats of paint or lacquer, **1932**, 193.
- Slater, R. H.** Review of Plimmer's *Organic and Bio-Chemistry*, **1934**, 68.
— See also Lynch, G. Roche.
- Sleightholme, J. J.** See Hilditch, T. P.
- Sloley, R. W.** Review of Briggs' *Practical Glass Manipulation*, **1926**, 601.
— Review of Caven and Cranston's *Symbols and Formulae in Chemistry*, **1928**, 677.
— Review of Lucas's *Ancient Egyptian Materials*, **1927**, 59.
— Review of Mond's *The Bucheum*, **1935**, 65.
— Review of *Tables Annuelles de Constantes et Données Numériques*, **1927**, 175.
- Slusanchi, H.** See Ionescu, M. V.
- Smeall, J. T.** Bacteria on fruit, **1933**, 48.
- Smedley-Maclean, I.** See Hume, E. M.
- Smelt, E. M.** Chemical tests for *Strophanthus*, **1933**, 704.
— Comparison of tests for balsam of Peru, **1932**, 724.
— Extract of colocynth, **1931**, 52.
— Keeping properties of Liquor Arsenicalis, **1933**, 627.
- Smetham, A.** Feeding experiments with corn cockle, **1927**, 273.
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- Smirk, F. H.** Micro-determination of iron in blood, **1927**, 291.
- Smirnowa, T. N.** See Zwenigorodskaja, V. M.
- Smit, W. C.** Linolic acids and their oxidation by per-acids, **1930**, 525.
— Quantitative oxidation of double linkings in oils and fats by per-acetic acid. New method of determining the degree of unsaturation, **1930**, 526.
- Smith, A. C.** See Byrlage, H. M.
- Smith, A. F.** See Kiech, V. C.
- Smith, A. H.** See Cook, C. A.
— See also Levine, H.
- Smith, A. N., and Dryburgh, A.** Examination of soils by means of *Aspergillus niger*, **1934**, 766.
- Smith, C. M.** See Gross, C. R.
- Smith, C. M., Hamilton, E. H., and Graham, J. J. C.** Study of Travers's method for the determination of fluorine with reference to insecticides, **1931**, 551.
- Smith, D. M.** Metallurgical Analysis by the Spectrograph (Review), **1934**, 208.
— The use of the spectrograph in metallurgical analysis, **1935**, 17.
- Smith, D. T.** See Dedlow, C.
- Smith, E. C. B.** Proteins of meat, **1935**, 485.
— Scheme for the approximate determination of the proteins of muscle, **1935**, 44.
— See also Haines, R. B.
- Smith, E. F.** Forgotten chemists, **1926**, 319.
- Smith, E. L.** Emulsification. Part 3, A factor inhibiting the emulsification of cod-liver oil, **1931**, 66.
— Review of Findlay's *Chemistry in the Service of Man*, **1931**, 843.
— Review of Laurens's *The Physiological Effects of Radiant Energy*, **1934**, 142.
— The determination of unsaponifiable matter in oils and fats, **1928**, 632.
— The determination of unsaponified oil in soap or fatty acids, **1931**, 9.
— See also Bacharach, A. L.
- Smith, E. L., and Hazley, V.** Reaction of anti-mony trichloride with cod-liver oil and its unsaponifiable fraction, **1931**, 265.
- Smith, E. R., Alfend, S., and Mitchell, L. C.** Detection of added pepper shells in pepper, **1926**, 584.
- Smith, F. D.** See Blicke, F. F.
- Smith, F. L.** Modified combustion method for the determination of bromine in organic compounds, **1927**, 357.
- Smith, F. L., and West, A. P.** Reduction of linolenic and linolic bromides and re-bromination of the free acids, **1927**, 359.
- Smith, F. W.** Review of Claremont's *A Practical Handbook of Rat Destruction*, **1926**, 378.
- Smith, G.** Detection and determination of glycerol in cotton cloth and sized yarns, **1926**, 265.
— Identification of *Aspergilli* in cotton goods, **1931**, 268.
— Identification of fungi causing mildew in cotton goods. The genus *Aspergillus*, **1928**, 296.
- Smith, G. B. L.** See Lehner, V.
- Smith, G. F.** Use of anhydrous perchlorates as dehydrating agents for gases, **1927**, 307.
— See also Shead, A. C.
- Smith, G. F., and G. P.** Determination of chromium in stainless steel, **1935**, 574.
- Smith, G. F., and Bliss, H. H.** Internal indicators for bromate titrations, **1931**, 554.
— Volumetric determination of iron using basic mercuric bromate, **1932**, 125.
- Smith, G. F., and Sullivan, V. R.** Determination of chromium in chrome-tanned leather, **1935**, 779.

- Smith, G. L., and Deem, A. G.** Determination of sulphur in coal by the perchloric acid method, **1932**, 408.
- Smith, G. P.** See Smith, G. F.
- Smith, G. S.** Colour reactions of carbazides and carbamides with diacetyl and diacetyldioxime, **1935**, 171.
- The determination of small amounts of boron by means of quinalizarin, **1935**, 735.
- The determination of magnesium in duralumin, **1935**, 812.
- Smith, G. S. G.** See Foreman, F. W.
- Smith, H.** See Smith, T.
- Smith, H. G.** Metabolism of azelaic acid, **1934**, 120.
- See also Freytag, F. C.
- Smith, H. L., and Cooke, J. H.** The determination of very small quantities of iron, **1926**, 503.
- Smith, H. R., and Cameron, E. J.** Mould-growth test for minute amounts of arsenic, **1934**, 123.
- Smith, J. A. B.** See Chibnall, A. C.
- Smith, J. H. C., and Milner, H. W.** Carotene. VII, Physical properties of carotenes from different plants sources, **1934**, 293.
- Smith, J. H. C., and Spoehr, H. A.** Carotene. I, Oxygen equivalent determined with potassium permanganate in pyridine solution, **1930**, 340.
- Smith, L. L. W., and Morgan, A. F.** Effect of light upon vitamin A activity and carotenoid contents of fruits, **1933**, 561.
- Smith, M. C., and Leverton, R. M.** Comparative toxicity of fluorine compounds, **1934**, 710.
- Smith, M. L.** See Spencer, J. F.
- Smith, M. P.** See Schuette, H. L.
- Smith, N. C.** Determination of egg in ice cream, **1930**, 515.
- Smith, P.** See Elsdon, G. D.
- Smith, R. A.** Micro vacuum distillation, **1932**, 674.
- Smith, R. C.** Simple laboratory emulsifier, **1927**, 366.
- Smith, S.** Cellulose lacquers, **1928**, 307.
- See also Lamb, J. D.
- Smith, S., and Cook, W. G. H.** Revision of *Taylor's Principles and Practice of Medical Jurisprudence* (Review), **1935**, 643.
- Smith, S. L.** See Sherman, H. C.
- Smith, T., and Smith, H.** Ephedra alkaloids, **1930**, 142.
- Smith, T. B.** Analytical Processes: A Physico-chemical Interpretation (Review), **1930**, 156.
- Qualitative analysis in presence of phosphate, **1933**, 365.
- Smith, V.** See Ware, A. H.
- Smith, W.** Determination of iodine in organic combinations, especially in thyroid gland, **1929**, 45.
- See also Evers, N.
- Smith, W. E., and Waller, E. K.** The characteristics of millet oil, **1933**, 319.
- Smith, W. P., and Vetch, F. P.** Specific Gravity and Baumé Gravity Tables for Turpentine, **1930**, 604.
- Smithells, C. J.** Impurities in Metals. Their Influence on Structure and Properties (Review), **1928**, 620; 2nd Ed., **1931**, 351.
- Tungsten: A Treatise on its Metallurgy, Properties and Applications (Review), **1927**, 55.
- Smits, A.** Allotrophy, **1927**, 53.
- Smorodinzew, J. A.** Evaluation of the quality of meat by artificial digestion with pepsin, **1934**, 422.
- Smyth, C. I.** See Morrell, R. S.
- Smyth, H. F., and Obold, W. L.** Industrial Microbiology. The Utilisation of Bacteria, Yeasts and Molds in Industrial Processes (Review), **1931**, 423.
- Smythe, C. V.** Titration of hydroxy organic acids in the presence of ferric and cupric salts, **1931**, 613.
- Snell, F. D.** Phosphoric acid for the determination of melting points, **1930**, 656.
- Snider, G. G.** See Hoagland, R.
- Snider, R. H.** See Bloor, W. R.
- Snider, R. H., and Bloor, W. R.** Fatty acids of liver lecithin, **1933**, 171.
- Snoddy, A. O.** See Bosart, L. W.
- Snyder, C. F.** Temperature corrections of Baumé hydrometer readings, **1926**, 427.
- Snyder, H.** Bread (Review), **1930**, 725.
- Snyder, J. E.** See Brown, F. E.
- Snyder, S.** Volumetric determination of sulphates by the use of benzidine solution, **1932**, 61.
- Soames, K. M.** See Clare, J. L. L.
- Sobotka, H.** Oxidation of methylated glucoses, **1926**, 522.
- See also Elek, A.
- See also Lichtman, S. S.
- Sobotka, H., and Reimer, M.** Selective fermentation. I, Alcoholic fermentation of glucose, fructose and mannose mixtures, **1930**, 712.
- II, Fermentation of sugar mixtures by Sauterine yeast, **1931**, 267.
- Socias, L.** See Fernandez, O.
- Soep, L.** Detection of dyeing with the colouring matter of sandal wood, **1927**, 696.
- Substitution of Janus Green for methylene blue in the reductase test for milk, **1928**, 106.
- Sohel, A. E.** See Natelson, S.
- Soliven, F. A.** See Pañganiban, E. H.
- Sollmann, T.** See Schreiber, N. E.
- Solomon, E. I.** See Quam, G. N.
- Solowiejczyk, S.** See de Brouckère, L.
- Somiya, T.** Determination of the acetyl value by thermometric titration, **1930**, 461.
- Somiya, T., and Kawai, K.** Analysis of sodium bismuthate by a gasometric method, **1930**, 66.
- Sommer, H. H.** See Gebhardt, H. T.
- See also Titus, R. W.
- Somogyi, M.** Notes on sugar determinations, **1927**, 38.
- Reducing non-sugars and true sugar in human blood, **1927**, 719.
- See also Good, C. A.
- Sontag, D.** See Palfray, L.
- Soop, E. J.** See Geniesse, J. C.
- Sørensen, M.** Carbohydrate content of the proteins in the white of hen's eggs, **1934**, 701.
- Sørensen, M., and Haugaard, G.** Application of the orcinol reaction to the determination of the nature and amount of carbohydrate groups in proteins, **1933**, 492.
- Soule, B. A.** See McAlpine, R. K.
- Southcombe, J. E.** Chemistry of the Oil Industries (Review), **1927**, 312.

- Southgate, B. A.** Toxicity of mixtures of poisons, 1933, 173.
- Southgate, H. W.** A chemical test for alcoholic intoxication, 1926, 208.
— Effect of high temperatures on the accessory food factor content of cod-liver oil, 1926, 94.
- Soyenkoff, B. C., and Hinck, C. F.** Measurement of the pH value and acid-neutralising power of saliva, 1935, 485.
- Soyka, C.** See Forster, R. B.
- Spackman, L. S.** See Parker, A. J.
- Spacu, G.** Separation of mercury from iron, 1926, 51.
- Spacu, G., and Armeanu, V.** Separation of selenocyanate from halides, 1933, 114.
- Spacu, G., and Dick, J.** Determination of cadmium and zinc, 1928, 508.
— Determination of cobalt, 1927, 430.
— Determination of copper, 1927, 494.
— Determination of manganese, 1928, 509.
— Rapid determination of nickel, 1927, 660.
— Rapid microchemical determination of copper and mercury, 1929, 768.
- Spacu, G., and Spacu, P.** Gravimetric and volumetric determination of mercury as mercurous iodate, 1934, 199.
- Spacu, G., and Suciuc, G.** Rapid determination of mercury and cadmium, 1929, 618.
— Rapid microchemical determination of copper and mercury, 1929, 768.
- Spacu, P.** Separation of iron from cobalt, 1935, 496.
— See also Spacu, G.
- Speakman, J. C.** See Glasstone, S.
- Speer, J. H., Wise, E. C., and Hart, M. C.** Composition of spinach fat, 1929, 423.
- Speers, P. C.** See Dhingra, D. R.
- Spencer, E., and Sen, K. B.** The use of mixed bromides in place of chlorides in the determination of alkalis, 1929, 224.
- Spencer, G. C.** New colorimetric method for the detection and determination of chromium, 1932, 405.
— See also Morton, J. K.
- Spencer, G. L.** Handbook for Cane-Sugar Manufacturers and their Chemists (Review), 1930, 419.
- Spencer, J. F.** Elementary Practical Physical Chemistry (Review), 1928, 63.
— Review of *Annual Tables of Constants and Numerical Data*, 1927, 54.
— Review of Gardner's *Chemical Synonyms and Trade Names*, 1926, 654.
— Review of Kingzett's *Chemical Encyclopaedia*, 4th Ed., 1928, 464.
— See also Hollens, W. R. A.
— See also Pring, M. E.
- Spencer, J. F., and Smith, M. L.** The determination of soluble iodides, 1927, 270.
- Sperry, W. M.** Influence of electrical charge in micro-gravimetric analysis, 1933, 177.
— See also Schoenheimer, R.
- Spiegelberg, E.** See Bleyer, B.
- Spielhaczeck, H.** Determination of fluorine in sulphuric acid and oleum, 1935, 273.
- Spielmann, P. E.** Review of Standard Methods for Testing Tar and its Products, 1930, 228.
- Spielmann, P. E., and Elford, E. J.** Road-making and Administration (Review), 1934, 683.
- Spiers, J.** See Ford, J. S.
- Spindeck, F.** Determination of beryllium in steel, 1930, 347.
— Electrometric titration of chromium in steel and ferro-chrome, 1931, 64.
- Spindler, L. A.** See Eckert, J. E.
- Spinks, J. W. T.** Analysis of mixtures of chlorine monoxide and chlorine, 1931, 688.
- Spitzen, V.** Precipitation of tungsten as mercurous tungstate, 1929, 123.
- Spitzer, L.** Determination of formaldehyde by means of potassium bromate, 1933, 360.
- Splait, L.** Photography by means of heat rays by Plotnikov's method, 1930, 224.
- Spittberger, A., and Nolte, E.** Untersuchung des Wassers, 1931, 624.
- Spoehr, H. A.** Photosynthesis (Review), 1927, 176.
— See also Smith, J. H. C.
- Spring, F. S.** See Heilbron, I. M.
— See also Morton, R. A.
- Spronck, S. J. H.** See Pieters, H. A. J.
- Sproxtton, F.** Cellulose Ester Varnishes (Review), 1926, 166.
- Spruyt, J. P.** Colorimetric method for the assay of rice for anti-beriberi vitamin content, 1930, 460.
- Spur, B.** See Lund, H.
- Squire, E. S.** Rapid method for the determination of sulphur in certain petroleum products, 1927, 101.
- Sreenivasaya, M.** See Krishna, B. H. R.
— See also Sastri, B. N.
- Srivastava, L. N.** See Macmahon, P. S.
- Ssamoilow, A.** See Ormont, B.
- Stafford, O. F.** Acetamide as a solvent, 1934, 56.
- Stahel, —.** See Sant, G.
- Stahl, W.** Determination of small quantities of boric acid by a flame test, 1931, 340.
— Determination of small quantities of boric acid by a flame test, 1935, 639.
- Stähli, M.** See Waser, E.
- Stahly, G. L., Osburn, O. L., and Werkman, C. H.** Quantitative determination of acetone and ethyl, butyl and iso-propyl alcohols in fermentation liquors, 1934, 319.
- Stainsby, W. J.** See Hilditch, T. P.
- Stamm, A. J.** Electrical resistance of wood as a measure of its moisture content, 1927, 732.
- Stamm, J.** Evidence of decomposition of oils and fats, 1926, 416.
- Standen, G. W.** See Elm, A. C.
- Stanék, V., and Nemes, T.** Micro-analytical method for the identification of organic substances, 1932, 471.
- Stanék, V., and Pavlas, P.** Detection of saccharin in beer and other beverages, 1934, 704.
- Stapleton, A. G.** See Rooney, T. E.
- Starck, H. P.** Volumetric Analysis (Review), 1935, 129.
- Stare, F. J., and Elvehjem, C. A.** Cobalt in animal nutrition, 1933, 167.
- Starkey, R. L.** See Waksman, S. A.

- Starr, I. Junr., and Gamble, C. J.** Method for the determination of minute amounts of ethyl iodide in air, water and blood, **1937**, 168.
- Starrett, J. E.** See Catlin, L. J.
- Stary, Z.** Collected references. Micro-determination of iron in biological material, **1933**, 304.
- Collected references. Micro-determination of nickel and cobalt, **1934**, 507.
- See also Heller, K.
- Stas, M. E.** Determination of small amounts of zinc in the presence of lead salts, **1931**, 204.
- Stathis, E.** New test for mercury, **1935**, 53.
- Stathopoulos, T. G.** Butters from the milk of sheep and goats, **1933**, 762.
- Yogurt as a dietetic food and medicine, **1926**, 414.
- Staub, P.** See Johnson, H.
- Stauder, F.** See Fischer, R.
- Staudinger, H.** Anleitung zur Organischen Qualitativen Analyse, **1929**, 502; 2nd Ed. (Review), **1931**, 216.
- Introduction to Qualitative Organic Analysis (Review), **1926**, 488.
- Stearn, A. E., and Day, A. A.** New method for determination of the activity of certain oxidases, with preliminary study of the potato oxidase, **1930**, 147.
- Steele, C. C.** An Introduction to Plant Biochemistry (Review), **1934**, 855.
- Steenbock, H.** See Baumann, C. A.
- See also Elvehjem, C. A.
- See also Hart, E. B.
- See also MacCorquodale, D. W.
- See also Preuss, L. M.
- See also Waddell, J.
- Steenbock, H., and Associates.** Fat-soluble vitamins. XXVIII, Antirachitic value of cows' milk as modified by exposure of the cow to sunlight and to radiations from a quartz mercury vapour lamp, **1930**, 457.
- Steenbock, H., and Coward, K. H.** Fat-soluble vitamins. XXVII, Quantitative determination of vitamin A, **1927**, 355.
- Steenhauer, A. J.** Micro-detection of thallium, **1930**, 467.
- The micro copper-pyridine reaction of certain organic acids, **1935**, 577.
- See also Van Itallie, L.
- Steger, A., and Van Loon, J.** Composition of ivy seed oil, **1928**, 301.
- Fat from the seeds of *Picramnia Sow*, **1933**, 565.
- Fatty oil from quince seeds, **1934**, 185.
- Fatty oil from the seeds of *Cassia occidentalis* Linn. ("wild coffee"), **1934**, 185.
- Fatty oil of *Parinarium macrophyllum* (neou oil), **1934**, 288.
- Millet seed oil, **1934**, 186.
- Thiocyanogen value of parsley seed oil, **1929**, 177.
- Ucuhuba fat, **1935**, 329.
- Steinbeck, H. J.** See Vollhase, E.
- Steiner, A.** See West, E. S.
- Steiner, A., Urban, F., and West, E. S.** Iron and thorium precipitation of biological fluids for sugar and other analyses, **1933**, 46.
- Steinle, J. V., and Kahlenberg, L.** Identification and determination of cholesterol and certain other compounds (Identification of hydrogenated oils), **1926**, 310.
- Steinmann, A.** Occurrence of acetaldehyde in tropical fruits, **1935**, 703.
- Stempel, B.** Acidimetric determination of alkali nitrites, **1933**, 244.
- Formol titration of hydrazine sulphate, **1933**, 244.
- Stene, S.** Note on the use of sand for centrifuging small precipitates, **1932**, 592.
- Stenger, V. A.** See Kolthoff, I. M.
- Stephen, H.** Revision of Wade's *Introduction to the Study of Organic Chemistry*, **1926**, 376.
- Stephens, W. H.** Review of Dawson and Porritt's *Rubber, Physical and Chemical Properties*, **1935**, 857.
- Stephenson, J. E., and Bridge, S. W.** The action of air on flowers of sulphur and ground sulphur, **1929**, 590, 737.
- Stephenson, M.** Monographs on Biochemistry. Bacterial Metabolism (Review), **1930**, 355.
- Review of Bodansky's *Introduction to Physiological Chemistry*, 2nd Ed., **1931**, 139.
- Review of Jordan Lloyd's *The Chemistry of the Proteins and its Economic Applications*, **1926**, 429.
- Review of Plimmer's *Practical Organic and Bio-Chemistry*, **1927**, 107.
- Sterling, W. F.** Determination of hoof meal, **1929**, 303.
- Stern, E., and Becker, H.** Foods made from yeast, **1926**, 250.
- Stern, H. J.** Arsenic in coated papers and boards, **1928**, 83.
- Stern, H. T.** Colorimetric pH test of water or unbuffered solutions, **1926**, 100.
- Stern, M. I.** See McLachlan, T.
- Steuart, D. W.** An alcoholic standard for cider, **1933**, 602.
- Buffers for the lactic fermentation, **1934**, 402.
- Butyrised fats: butter-aroma, **1935**, 172.
- Determination of salt in margarine, **1928**, 212.
- Methylene blue for the milk reductase test, **1928**, 532.
- The acids of cider, **1935**, 88.
- The composition and calorific value of English cider, **1934**, 27.
- The determination of pectin in dried apple pomace, **1933**, 397.
- The determination of tartaric acid in cider, **1934**, 532.
- The formalin titration of proteins, **1933**, 754.
- Steuer, W.** Direct determination of nitrogen in lighting and heating gas, **1927**, 47.
- Stevens, H. P.** Review of Memmler's *Handbuch der Kautschuk-Wissenschaft*, **1931**, 71.
- The Paper Mill Chemist (Review), **1927**, 373.
- Stevens, H. P., and Donald, M. B.** Rubber in Chemical Engineering, **1933**, 730.
- Stevens, H. P., and Porritt, B. D.** Rubber and its uses in Building Works (Review), **1926**, 434.
- Stevens, S. G. E.** The microscopical examination of herbs, **1934**, 744.
- Stevens, W. H.** Extraction apparatus for rubber, cellulose, fats, etc., **1931**, 528.

- Stevens, W. H.** Review of Hauser's *Latex, Its Occurrence, Collection, Properties and Technical Applications*, 1930, 601.
— Review of Memmler's *The Science of Rubber*, 1935, 347.
- Stevenson, S. G.** Review of "Analar" Standards for Laboratory Chemicals, 1935, 63.
— Review of Glyn-Jones's *The Pharmacy and Poisons Act Explained*, 1934, 67.
— Review of Reports of the Society of Chemical Industry on the Progress of Applied Chemistry, 1932, 1933, 312.
— Review of Worrall's *Table of Incompatibles*, 1935, 348.
— See also Bacharach, A. L.
- Steward, C. O. M.** Determination of water in wool by distillation, 1933, 301.
- Stewart, A. M., and Rimington, C.** Basic amino-acids of wool, 1932, 257.
- Stewart, Alan W.** Appointed Public Analyst for Metropolitan Borough of Islington, 1930, 383; for the Boroughs of Newbury and Windsor (New), 1932, 378; for the Metropolitan Borough of Paddington, 1932, 519.
— Termination of Appointment as Additional Public Analyst for the County of Berkshire, 1932, 518.
- Stewart, Alfred W.** Recent Advances in Organic Chemistry, 5th Ed. (Review), 1927, 734; 6th Ed., 1932, 67.
— Recent Advances in Physical and Inorganic Chemistry, 5th Ed. (Review), 1926, 541; 6th Ed., 1931, 425.
- Stewart, C. P., and Dorrer, O.** Translation of Leschke's *Clinical Toxicology* (Review), 1934, 722.
- Stewart, C. P., and Dunlop, D. M.** Clinical Chemistry in Practical Medicine (Review), 1932, 279.
- Stewart, J.** See Woodman, H. E.
- Stewart, M. M.** Effect of exposure to low temperatures on the number of bacteria in fish muscle, 1934, 711.
- Sticht, G. A.** Rapid method for quinine determination, 1929, 607; Corrected abstracts, 1930, 53.
- Stiebeling, H. K.** See Sherman, H. C.
- Still, E. U.** See Hansche, R.
- Stillwell, A. G.** Determination of wax in shellac, 1931, 62.
- Stirling, W.** A simplified micro-comparator, 1933, 684.
- Stitz, J.** See Orbán, G.
- Stitz, J., and Kockás, J.** Ultra-violet absorption of honeys, 1931, 137.
- Stitz, J., and Szigvárt, B.** Freezing-point depression of honey, 1932, 108.
- Stock, C. J. H.** An inquiry into some problems connected with milk, 1930, 535.
— The use of glazed earthenware containers, 1926, 82.
- Stockdale, D., and Dexter, J.** Revision of Clowes and Coleman's *Quantitative Chemical Analysis*, 13th Ed. (Review), 1932, 597.
- Stocks, H. B.** Reaction between tannin and casein, 1927, 170.
— Water Analysis for Sanitary and Technical Purposes, 2nd Ed. (Review), 1932, 742.
- Stocks, H. B., and Greenwood, C. V.** Nature of the reaction between tannin and carbohydrates, 1927, 170.
- Stoddard, J. L.** Electrolytic method for the determination of sodium and potassium, 1927, 660.
- Stoddard, J. L., and Drury, P. E.** Titration method for blood fat, 1930, 53.
- Stokes, G. A.** Corrosion-resisting steel for laboratory use, 1929, 538.
- Stokes, J., Junr.** See Kahn, G.
- Stokoe, W. N.** The rancidity of coconut oil produced by mould action, 1928, 296.
- Stokstad, E. L. R.** See Givens, J. W.
- Stoll, A., and Burckhardt, E.** Ergobasine. A new alkaloid of ergot of rye, 1935, 483.
- Stollenwerk, W., and Bäurle, A.** Simultaneous determination of orthophosphate and pyrophosphate, 1929, 435.
- Stone, J. B., and Alsberg, C. L.** The rennin coagulation of milk. Effect of hirudin, of heparin, of cephalin and of fat removal, 1928, 503.
- Stone, K.** Study of yeasts by the complement-fixation test, 1930, 711.
- Stoner, N.** See Erickson, B. N.
- Stoppel, A. E., and Harding, E. P.** Determination of the heat value of coal in nickel-lined bombs, 1929, 65.
- Stott, V.** Volumetric Glassware (Review), 1929, 497.
- Stout, A. W., and Schuette, H. A.** Rye germ oil, 1932, 659.
- Stout, A. W., Schuette, H. A., and Fischer, R. G.** Rye oil. II. Properties as affected by choice of solvent, 1934, 187.
- Stout, P. R.** See Hibbard, P. L.
- Stover, N. M.** Diphenylcarbazide as a test for chromium, 1928, 615.
- Strache, H., and Brandl, A.** Carbonyl number of wines, 1928, 290.
- Strafford, N.** The Detection and Determination of Small Amounts of Inorganic Substances by Colorimetric Methods, 1933, 652.
— See also Callan, T.
— See also Evers, N.
- Strafford, N., and Crossley, H.** The determination of small amounts of sulphur in certain organic compounds, 1935, 163.
- Strafford, N., and Parry-Jones, R. T.** The determination of small amounts of pyridine in nicotine, 1933, 380.
- Strain, H. H. S.** Carotenes from different sources and some properties of α - and β -carotene, 1935, 773.
— Separation of carotenes by adsorption, 1934, 559.
- Strater, H. H.** See Damerell, V. R.
- Stratta, R., and Mangini, A.** Fluorescence of Italian olive oils in ultra-violet light, 1928, 387.
- Straub, J.** Difference in osmotic concentration between yolk and white of egg, 1929, 296.
— Micro-iodimetric determination of iron, 1934, 368.
— See Van Raalte, A.
- Straub, J., and Donck, C. M.** Mineral constituents and freezing-point of the white and yolk of hens' eggs, 1934, 701.

- Straub, J., and Malotau, R. N. M. A.** Setting-point curve of cocoa butter, **1930**, 137.
- Straub, J., and Peper, J. P.** Valuation of army biscuits from chemical analysis, **1926**, 602.
- Strebinger, R.** Micro-separation of barium and calcium, **1930**, 298.
- Strebinger, R., and Holzer, H.** Determination of potassium as chloroplatinate, **1932**, 801.
— Micro-analysis of metal plating, **1930**, 719.
- Strebinger, R., and Reif, W.** Micro-determination of magnesium with *o*-oxyquinoline, and its separation from calcium, **1930**, 297.
- Strebinger, R., and Zins, W.** Determination of bismuth as oxyiodide, **1928**, 237.
- Strecker, W.** Qualitative Analyse auf Präparativer Grundlage, 3rd Ed. (Review), **1933**, 506.
- Strecker, W., and De la Pena, P.** Determination of thallium, **1926**, 160.
- Strecker, W., and Diaz, F. O.** Analytical chemistry of rubidium and caesium, **1926**, 162.
- Strecker, W., and Herrmann, A.** Volumetric determination of bismuth, **1927**, 659.
- Strover, N. M., and Hopkins, B. S.** Fungicidal and bactericidal action of selenium and tellurium compounds, **1927**, 356.
- Stschigol, M.** Glycerin as a reagent for mercury, **1934**, 433.
- Stuart, L. S.** See Balls, A. K.
- Stuart, L. S., Frey, R. W., and James, L. H.** Reddening of salted hides, **1934**, 123.
- Stubbs, J. R.** A modified Hortvet apparatus and the true freezing-point of milk, **1935**, 607.
— A study of heat exchange in the cryoscopes of Hortvet and Monier-Williams for the determination of the freezing-point of milk, **1935**, 600.
— Obituary of J. Wood, **1933**, 317.
— Production of uniform stains in the Gutzeit test for arsenic, **1927**, 699.
— Review of Atack's *The Chemist's Year Book*, 1928, 13th Ed., **1928**, 618.
— Review of Grünsteidl's *Praktikum der Warenkunde*, **1932**, 202.
— Review of Rehwal'd's *Starch Making*, **1927**, 177.
— Sweet potato starch in cornflour and arrowroot, **1926**, 400.
— The Hortvet freezing-point process for the examination of milk: Correction factors and the influence of stirring. I, **1935**, 147; II, **1935**, 223; III, **1935**, 233.
- Stubbs, J. R., and Elsdon, G. D.** The examination of one thousand milks by the Hortvet freezing-point process, **1934**, 146.
- Stubbs, J. R., and Lees, A.** Examination of a proposed method for the identification and estimation of oils and fats, **1933**, 211.
- Stuber, E., and Kijatschhina, B.** Determination of strychnine as silicotungstate, **1928**, 605.
- Stüber, W.** Determination of caffeine in black tea, **1927**, 238.
- Stueber, A. H.** See Schlegel, J. W.
- Stutzer, H.** See Wassilieff, A.
- Subbarow, Y.** See Fiske, C. H.
- Sucharipa, A.** See Feigl, F.
- Sucin, G.** See Spacu, G.
- Suckling, E. V.** See Thresh, J. C.
- Süe, P.** Determination of niobium with *o*-hydroxyquinoline, **1933**, 366.
- Sugden, J. H.** See Dixon, S.
- Sugden, S.** The Parachor and Valency (Review), **1930**, 226.
- Sullivan, B., and Howe, M. A.** Lipases of wheat. I, **1933**, 169.
- Sullivan, B., and Near, C.** Relation of the magnesium in the ash and the lipid-protein ratio to the quality of wheats, **1927**, 244.
- Sullivan, F. W., McGill, W. J., and French, A.** Solubility of paraffin wax in petroleum oils, **1927**, 727.
- Sullivan, J. T., and Horat, L. E.** Determination of small quantities of nitrogen in plant materials, **1929**, 303.
- Sullivan, M. X.** See Hess, W. C.
- Sullivan, V. R.** See Smith, G. F.
- Sumner, J. B.** A more specific reagent for determination of sugar in urine, **1926**, 45.
— Isolation and crystallisation of the enzyme urease, **1926**, 587.
— Recrystallisation of urease, **1926**, 637.
- Sumner, J. B., and Howell, S. F.** Method for the determination of sucrase activity, **1935**, 194.
- Sunde, C. J.** See Lauer, W. M.
- Supplee, G. C., and Dow, O. D.** Vitamin A potency of irradiated milk, **1927**, 720.
- Supplee, G. C., Kahlenberg, O. J., and Flanigan, G. E.** Growth-promoting properties (vitamin B complex) of the concentrated water-soluble portion of milk, **1932**, 53.
- Sure, B.** The Vitamins in Health and Disease (Review), **1933**, 650.
- Suri, H. D.** See Dunncliff, H. B.
- Surie, E.** See Mellanby, E.
- Surun, —.** Determination of absorptive powers of charcoals, **1926**, 481.
- Sutermeister, E.** Chemistry of Pulp and Paper-Making, 2nd Ed. (Review), **1929**, 626.
- Sutton, F.** A Systematic Analysis, 12th Ed. (Review), **1935**, 865.
- Sutton, R. W.** Appointed Additional Public Analyst for County Borough of Leeds, **1930**, 383; as Deputy Agricultural Analyst for Leeds, **1930**, 566; Public Analyst for the County Borough of Derby, **1933**, 533; for County of Derbyshire, and vacates appointment of Additional Public Analyst for County Borough of Leeds, **1933**, 398.
— Report of the County Analyst for Derby for the year 1934, **1935**, 612.
— See also Manley, C. H.
- Sutton, T. C.** See Ambler, H. R.
- Švéda, J., and Uzel, R.** Determination of tin by rapid electrolysis, **1929**, 366.
- Svedberg, T., and Fähræus, R.** New method for the determination of the molecular weight of proteins, **1926**, 216.
- Svirbely, J. L.** Ascorbic acid content of the adrenals and livers of different animals, **1933**, 632.
- Svirbely, J. L., and Szent-Györgyi, A.** The chemical nature of vitamin C, **1933**, 489.
- Svirbely, J. S., and King, C. G.** Preparation of vitamin C concentrates from lemon juice, **1932**, 187.
- Swank, H. W., and Mellon, M. G.** Colorimetric standards for silica, **1934**, 773.
- Swann, S., and Xanthakos, T. S.** Cobaltic sulphate as an oxidising agent, **1931**, 272.

- Swarts, F.** Cours de Chimie Inorganique (Review), 1927, 369.
- Swartz, C. E.** See Krauskopf, F. C.
- Sweetman, M. D., and Palmer, L. S.** Insects as test animals in vitamin research. I. Vitamin requirements of the flour beetle, *Tribolium confusum* Duval, 1928, 348.
- Swenson, T. L.** See Balls, A. K.
- Swett, W. W., Miller, F. W., and Graves, R. R.** Quantity and composition of milk obtained from amputated cow udders, 1933, 47.
- Swift, C. K.** See Houseman, P. A.
- Swift, E. H., and Hoeppe, R. W.** Volumetric determination of vanadium by means of potassium iodate, 1929, 491.
- Swift, E. H., Barton, R. C., and Backus, H. S.** New method for the separation of zinc, cobalt, nickel and iron from aluminium, chromium and manganese, 1933, 53.
- Swift, R. W.** See Forbes, E. B.
- Swim, F. R.** See Mellon, M. G.
- Swingle, H. S.** Composition of commercial acid lead arsenate and its relation to arsenical injury, 1930, 60.
- Swoboda, K.** Determination of vanadium in steel, 1929, 122.
- Swoboda, K., and Horny, R.** Determination of cerium in alloy steel, 1926, 215.
- Sylvester, N. D.** See Lampitt, L. H.
- Sylvester, N. D., and Lampitt, L. H.** The determination of copper in foods with special reference to milk, 1935, 376.
- Symons, C. T.** Report of the Government Analyst for Ceylon for the year 1927, 1928, 384; for 1928, 1929, 544; for 1929, 1930, 578; for 1931, 1932, 575; for 1930, 1931, 666.
- Sytschoff, A. P.** See Ochotin, V. P.
- Szabó, E.** Determination of nitrite and sulphite in the presence of one another in salt mixtures and in meat products, 1931, 120.
- Iodimetric determination of bromide ions, 1931, 480.
- Szancer, H.** Merz reactions for certain new anaesthetics, 1932, 724.
- Szebellédy, L.** Detection of copper in presence of iron, 1929, 63.
- Determination of strontium and barium, 1929, 682.
- Szebellédy, L., and Schick, K.** Selenium as indicator in the bromate titration of arsenic, 1934, 571.
- Separation of potassium and sodium as iodides, 1934, 502.
- Szeberényi, P.** Iodimetric determination of sulphur in polysulphides, 1932, 477.
- Volumetric determination of sulphur in polysulphides, 1929, 621.
- Szego, L., and Cassoni, B.** Colorimetric determination of traces of fluorine, 1934, 201.
- Szent-Györgyi, A.** See Svirbely, J. L.
- Szigvárt, B.** See Stitz, J.
- Szilard, C.** See Rosenthal, E.
- Szilard, P.** Detection of artificial pearls, 1926, 53.
- T**
- Tabern, D. L., and Shelberg, E. F.** Determination of sodium in organic compounds by the uranyl acetate method, 1931, 685.
- Taboury, —.** Adventitious presence of selenium in certain plants, 1932, 583.
- Taboury, M. F., and Audidier, H.** Volumetric determination of arsenic acid, 1935, 272.
- Taffel, A., and Revis, C.** Determination of rancidity in oils and fats, 1931, 323.
- Taguchi, T.** See Tomoda, Y.
- Tait, A.** See Ford, J. S.
- Takahashi, T.** See Oshima, Y.
- Takata, R.** Vitamin B content of polished rice koji, 1929, 558.
- Takei, T.** "Soy" oil, 1934, 761.
- Tallantyre, S. B.** Detection and determination of pyridine, 1931, 202.
- Tamaru, S., and Ando, N.** New method for dissolving cassiterite, 1931, 481.
- Tamchyna, J. V.** Tests using organic reagents: Effect of the sensitiveness of increasing the size of the molecule, 1932, 127.
- Tammann, G.** The States of Aggregation: The Changes in the State of Matter in Their Dependence upon Pressure and Temperature (Review), 1926, 489.
- Tampy, K. K.** See Mukhopadhyay, B. K.
- Tananaeff, I.** Volumetric determination of fluorine in fluorspar, 1934, 847.
- Volumetric method for lead, 1934, 845.
- Tananaeff, N. A.** Alkalimetric determination of lead in alloys, 1935, 428.
- Identification of the alkaline earths in admixture, 1935, 575.
- Tananaeff, N. A., and Babko, A. K.** Volumetric determination of silica in silicates, 1930, 770.
- Tananaeff, N. A., and Harmasch, E. P.** Separation of caesium from other alkali metals, 1932, 672.
- Tananaeff, N. A., and Kremer, J. N.** Argentometric determination of sodium sulphide and sulphhydrate, 1935, 427.
- Tananaeff, N. A., and Kulberg, L. M.** Determination of free lime in cement, 1932, 477.
- Tananaeff, N. A., and Lasarkevitch, N. A.** Conversion of alkali chloride into oxalate, 1930, 652.
- Tananaeff, N. A., and Pertschik, F. I.** Determination of silica in silicates, 1932, 540.
- Tananaeff, N. A., and Ponomarjeff, W. D.** Detection of arsenic in presence of antimony, 1935, 496.
- Volumetric determination of mercuric chloride by means of lead sulphide, 1935, 495.
- Tananaeff, N. A., and Potschinok, C. N.** Detection of the acids of arsenic and phosphorus, 1932, 540.
- Tananaeff, N. A., and Schachowa, M. A.** Argentometric determination of alkali and sulphide in sodium aluminate, 1935, 427.
- Tananaejin, N. A.** Specific spot test for mercurous ion, 1932, 64.
- Tange, U., and McCollum, E. V.** Allophanates of certain sterols, 1928, 232.
- Tankard, A. R.** Note on the filtration method of measuring the sediment in milk, 1926, 31.
- Report of the Public Analyst for Kingston-upon-Hull for 1925, 1926, 625; for 1926, 1927, 702; for 1927, 1928, 591; for 1928, 1929, 661; for 1929, 1930, 630; for 1930, 1931, 657; for 1931 and 1932, 1933, 401; for 1933, 1934, 819; for 1934, 1935, 754.

- Tankard, A. R.** Review of the Annual Reports on the Progress of Applied Chemistry. Vol. XIII, 1928, 1929, 772; Vol. XIV, 1929, 1930, 532.
 — Review of the *A.O.A.C. Official and Tentative Methods of Analysis*, 3rd Ed., 1932, 342.
 — Review of *Dictionary of Colour Standards*, 1934, 724.
 — Review of Kent-Jones's *Modern Cereal Chemistry*, 1928, 310.
 — Review of Liverseege's Adulteration and Analysis of Foods and Drugs, 1932, 595.
 — Review of Parsons's *Fundamentals of Biochemistry*, 1934, 373.
 — Review of Wynter-Blyth's *Foods: Their Composition and Analysis*, 7th Ed., 1928, 461.
 — Use of Janus Green in the reductase test for milk, 1928, 213.
- Tankard, A. R., and Bagnall, D. J. T.** Fatalities due to vitiated air produced by the oxidation of vegetable refuse, 1930, 673.
 — The examination of fish for formaldehyde, 1926, 565.
- Tankard, A. R., Bagnall, D. J. T., and Morris, F.** The composition of the amniotic fluid, 1934, 806.
- Tanke, A., and Jirak, L.** Decomposition and preservation of eggs, 1935, 701.
- Tannenbaum, S. A.** Shakspeare Forgeries in the Revels Accounts (Review), 1929, 627.
- Tanner, F. W.** Bacteriology (Review), 1929, 688.
 — Practical Bacteriology (Review), 1929, 375.
- Tanner, H. G.** Identification of "Norit" and other wood charcoals, 1926, 50; 1932, 8.
- Tanret, G.** Salts of pelletierine, 1928, 544.
 — See also Penau, H.
- Tarassuk, N. P.** See Richardson, G. A.
- Tarbert, D. J.** See Bennett, A. H.
- Tartarini, G.** New colour reactions of cuprous salts, 1934, 60.
- Tasaki, S., and Yamamoto, J.** Fatty oil of the bull frog, 1930, 645.
- Tashiro, S., and Tietz, E. B.** Simple test for laevulose in glucides, 1930, 520.
- Tassilly, E., and Savoie, R.** Spectrophotometric determination of nitrites and nitrates by diphenylamine sulphate, 1927, 107.
- Tate, F. G. H.** Alcoholometry (Review), 1930, 663.
 — Equalisation of temperature in electric ovens, 1934, 168.
 — Spirit Tables at 80°/80° F., 1933, 574.
- Tattersfield, F.** Loss of toxicity of pyrethrum dusts, 1932, 401.
 — See also Martin, J. T.
- Tattersfield, F., and Hobson, R. P.** Determination of pyrethrin I and II in pyrethrum, 1929, 549.
 — Insecticidal value and determination of pyrethrin I and II in *Pyrethrum cinerariaefolium*, 1929, 351.
- Tauber, H.** New micro method for the detection of monoses in the presence of reducing bioses, 1934, 647.
 — Sensitive spot reaction for ascorbic acid (vitamin C), 1935, 487, 629.
 — Use of Benedict's solution in the micro-detection of sugar in urine and other solutions, 1934, 648.
 — See also Kleiner, I. S.
- Tauber, H., and Kleiner, I. S.** Enzymic method for the estimation of true vitamin C, 1935, 712.
 — Quantitative determination of ascorbic acid (vitamin C), 1935, 264.
- Tauber, H., Kleiner, I. S., and Miskind, D.** Ascorbic acid (vitamin C) oxidase, 1935, 629.
- Taubes, S.** See Baker, G. W.
- Täufel, K.** Systematic examination and evaluation of the Kreis reaction, 1931, 541.
 — See also Sampietro, C.
- Täufel, K., and Bauschinger, C.** Composition of German rape oil, 1929, 187.
 — Glycerides of rape oil, 1929, 187.
- Täufel, K., and Müller, J.** Oleic acid rancidity of fats. II, Measurement of rancidity, 1931, 259.
- Täufel, K., and Sadler, P.** Auto-oxidative rancidity of fats. VI, Technique and evaluation of the Kreis reaction, 1934, 353.
- Täufel, K., and Thaler, H.** Colour reaction for glycerin, 1934, 118.
 — "Ketone rancidity" of fats. I, New method of detection, 1932, 466.
 — Structure of the cell-wall of coffee, 1935, 329.
- Taurins, A.** Determination of cobalt as hexamminecobaltous iodimercurate, 1935, 638.
 — Gravimetric determination of copper, cadmium and nickel as complex mercury compounds, 1934, 434.
- Tavernier, J.** See Warcollier, G.
- Taylor, E. R., and Clarke, H. T.** The lower fatty acids of coconut oil, 1928, 44.
- Taylor, F. A., and Levene, P. A.** Oxidation of lignoceric acid, 1929, 113.
- Taylor, F. H. L.** See Young, A. G.
- Taylor, G.** See Dyer, B.
- Taylor, H. J.** See Thompson, T. G.
- Taylor, J. N.** Determination of high-boiling phenols in a coal tar creosote and castor oil soap disinfectant, 1928, 452.
- Taylor, K. F.** See Campbell, W. G.
- Taylor, M.** Highly accurate method for the analysis of urea, 1929, 116.
- Taylor, R. J.** See Elsdon, G. D.
- Taylor, T. C., and Lehrman, L.** Unsaturated fatty acids associated with corn (maize) starch, 1926, 464.
- Taylor, T. C., and Werntz, J. H.** Properties of maize starch. Removal of combined fatty acids, 1927, 480.
- Tchakirian, A.** Volumetric determination of germanic acid. Study of certain hydrated forms of the acid and its salts, 1928, 559.
 — See also Levaditi, C.
- Tschischewski, N.** Analysis of boron alloys, 1926, 424.
- Teik, G. L.** See Georgi, C. D. V.
- Teitelbaum, M.** See Berg, R.
- Templin, V.** See Schuette, H. A.
- Terényi, A.** Determination of the colouring matter of egg-yolk, 1932, 106.
- ter Meulen, H.** Accumulation of molybdenum in aquatic plants, 1932, 535.
 — Determination of arsenic in organic compounds, 1926, 421.
 — Determination of mercury in organic and inorganic compounds, 1926, 422.

- ter Meulen, H., and Peeren, K.** Determination of nitrogen in yeast by the hydrogenation method, **1932**, 524.
- ter Meulen, H., and Ravenswaay, H. J.** Determination of cadmium in organic and inorganic compounds, **1929**, 190.
- Tettamanzi, T.** See Garelli, F.
- Thaler, H.** See Täufel, K.
- Thamann, F.** See Kehoe, R. A.
- Thatcher, R. W.** Use of amyl alcohol in the sodium diethyl dithiocarbamate method for the determination of copper, **1934**, 130.
- Thaysen, A. C.** Preservation of stock cultures of micro-organisms, **1935**, 112.
- Thaysen, A. C., and Bunker, H. J.** Microbiology of Cellulose, Hemicellulose, Pectin and Gums (Review), **1927**, 500.
- Thaysen, A. C., and Galloway, L. D.** The Microbiology of Starch and Sugars (Review), **1930**, 723.
- Theis, E. R., and Graham, J. M.** Analysis of sulphonated oils, **1933**, 240.
- Theobald, L. S.** See Harwood, H. F.
- Thews, E. R.** Metallurgy of White Metal Scrap and Residues (Review), **1930**, 776.
- Thiele, E. W.** Calculation of flash points of blend of lubricating oils, **1927**, 307.
- Thienes, C. H.** Effect of nicotine upon white mice, **1929**, 359.
- Thies, O. J. Junr.** See Nichols, M. L.
- Thilo, E.** See Rabinowitsch, E.
- Thimann, K. V.** Micro method for the determination of the Hausmann numbers of proteins, **1927**, 239.
- Thomas, A. W., and Mattikow, M.** Method for the direct identification of rapeseed oil by isolation of erucic acid, **1926**, 315.
- Thomas, C. A., and Marling, P. E.** Drying rates of synthetic rosins with drying oils. I, China wood oil, **1932**, 668.
- Thomas, H.** See Heiduschka, A.
- Thomas, H. A.** Oxycellulose and hydrocellulose, **1933**, 362.
- Thomas, M.** Plant Physiology (Review), **1935**, 788.
- See also Blackburn, K. B.
- Thomas, P., and Kalman, C.** Action of various sugars on the reaction of sodium molybdate solutions, **1933**, 617.
- Thomas, P. E.** See Fosse, R.
- Thomas, R. W.** See Schuette, H. A.
- Thomlinson, J.** See Fisher, E. A.
- Thompson, A.** See Morton, R. A.
- Thompson, A. C.** See Fearon, W. R.
- Thompson, F. C.** See Atkin, W. R.
- Thompson G. Rudd.** Presidential Address, **1926**, 120.
- Review of Bamford and Harris's *The Metallurgists' Manual*, **1927**, 501.
- Review of Low's *Technical Methods of Ore Analysis*, 10th Ed., **1928**, 361.
- Review of Smithells's *Tungsten*, **1927**, 55.
- Review of Smithells's *Impurities in Metals*, **1928**, 620.
- Review of Thorpe's *A Dictionary of Applied Chemistry*. Vol. VI, **1926**, 374; Vol. VII, **1928**, 181.
- Thompson, I.** See Wright, A. M.
- Thompson, J.** Appointed Public Analyst for the County of Berkshire, **1932**, 518.
- Thompson, J. H.** See Eastland, C. J.
- Thompson, J. G.** See Willard, H. H.
- Thompson, J. J., and Oakdale, U. O.** Determination of halogen compounds, **1930**, 652.
- Thompson, M. R.** Metal-connected glass electrode, **1933**, 307.
- Thompson, R. C.** On the Chemistry of the Ancient Assyrians (Review), **1926**, 112.
- Thompson, S. P.** See Driver, J. E.
- Thompson, T. G., and Taylor, H. J.** Determination and occurrence of fluorides in sea-water, **1933**, 369.
- Thomson, C. H.** On the effect of "blowing" on the composition of certain fatty oils, **1926**, 177.
- Thomson, R. T.** Behaviour of indicators in the titration of ammonia, sodium and calcium phosphates, the methylamines, pyridine bases and boric acid, **1928**, 315.
- Obituary of R. R. Tatlock, **1935**, 132.
- Thorbjarnarson, T.** The liver oil of Norway haddock (*Sebastes marinus*), **1935**, 525.
- Thorbjarnarson, T., and Drummond, J. C.** Occurrence of an unsaturated hydrocarbon in olive oil, **1935**, 23.
- Thorbjarnarson, T., Santos Ruiz, A., and Drummond, J. C.** Selective adsorption in the examination of the unsaponifiable matter of marine oils, **1935**, 382.
- Thorén, S.** See Jorpes, E.
- Thorne, P. C. L.** Translation of Ephraim's *Textbook of Inorganic Chemistry*, 2nd English Ed., **1934**, 309.
- See also Keane, C. A.
- Thorne, R. S. W.** Determination of the total nitrogen and solid matter in yeast, **1932**, 182.
- Thornton, W. M., Junr.** Titanium. With Special Reference to the Analysis of Titaniferous Substances (Review), **1927**, 736.
- Thornton, W. M., Junr., and Lewis, M. N.** Photography of fluorescent minerals, **1935**, 783.
- Thornton, W. M., Junr., and Roseman, R.** Determination of iron in presence of titanium, **1935**, 429.
- Potassium titanium oxalate for the preparation of standard titanium solution in colorimetry, **1930**, 648.
- Thorogood, A. L.** See Barr, G.
- Thorpe, Sir E.** Dictionary of Applied Chemistry. Vol. VI (Review), **1926**, 374; Vol. VII, **1928**, 181.
- Thorpe, J. F.** Obituary of A. W. Crossley, **1927**, 317.
- Thorpe, J. F., and Whiteley, M. A.** A Student's Manual of Organic Chemical Analysis, Qualitative and Quantitative (Review), **1926**, 55; **1927**, 312.
- Dictionary of Applied Chemistry. Supplement Vol. I (Review), **1934**, 781; Supplement Vol. II, **1935**, 645.
- Thoung, Chit.** See Peacock, D. H.
- Thresh, J. C., Beale, J. F., and Suckling, E. V.** The Examination of Waters and Water Supplies, 4th Ed. (Review), **1933**, 727.
- Thrun, W. E.** See Winter, O. B.
- Thurber, F. H., and Roll, L. J.** Oil from Port Orford cedar wood, **1927**, 490.

- Thurman, B. H., and Candall, W. R.** Film characteristics of the esters of the component fatty acids of linseed oil, **1929**, 186.
- Tian, A.** Improved Meyer apparatus for vapour density determinations, **1927**, 107.
- Tice, L. F.** Extraction of capsaicin and its determination in capsicum fruit and oleoresin, **1933**, 623.
- Tickle, T.** Review of Allen's *Organic Analysis*. Vol. VII, **1930**, 73.
- Tietz, E. B.** See Tashiro, S.
- Tillmans, J.** New carbohydrate in rye flour and detection of rye flour in wheat and other flours, **1929**, 43.
— See also Bömer, A.
- Tillmans, J., and Kiesgen, J.** Determination of amine acids in foodstuffs, **1927**, 417.
— "Formol" titration as a means of distinguishing artificial and natural foodstuffs, **1927**, 417.
- Tillmans, J., and Neu, E.** Titration of the alkali metals in water, **1932**, 121.
- Tillmans, J., Hirsch, P., and W.** Reduction capacity of plant foodstuffs and its relation to vitamin C. I, Reducing substance in lemon juice, **1932**, 260.
- Tillmans, J., Hirsch, P., and Dick, H.** Reduction capacity of plant foodstuffs and its relation to vitamin C. IV, Reversibility of the oxidation of the reducing substances in lemon juice, **1932**, 397.
- Tillmans, J., Hirsch, P., and Jackisch.** Reduction capacity of plant foodstuffs and its relation to vitamin C. III, Content of reducing substance in different fruits and vegetables, **1932**, 396.
- Tillmans, J., Hirsch, P., and Kuhn, A.** Chemical and physico-chemical changes accompanying the beginning of the putrefaction of flesh, **1927**, 289.
- Tillmans, J., Hirsch, P., and Reinshagen, E.** Use of 2,6-dichlorophenol-indophenol as a reduction indicator in the examination of foodstuffs, **1929**, 176.
- Tillmans, J., Hirsch, P., and Vaubel, R.** Reduction-capacity of plant foodstuffs and its relation to vitamin C, **1933**, 295.
- Tillmans, J., Riffart, H., and Kühn, A.** Quantitative determination of cholesterol and lecithin. Evaluation of egg products, **1931**, 118.
- Timmerman, H. A.** Stomatal numbers—Their value for distinguishing plant species, **1927**, 291.
- Timmers, J. C.** See Okeloen, B. J.
- Timon-David, J.** Action of bromine on insect oils, **1929**, 433.
— Insect fats. Fat from aphidian parasites of the terebinth, **1928**, 236.
- Tingey, H.** See Trease, G. E.
- Tingle, A.** A qualitative reaction for the detection of lignone sulphonates (sulphite waste liquor), **1935**, 86.
- Tinkler, C. K.** Blackening of potatoes after cooking, **1931**, 676.
- Tinkler, C. K., and Masters, H.** Applied Chemistry. Vol. I, Water, Detergents, Textiles, Fuels, etc., 2nd Ed. (Review), **1929**, 311; 3rd Ed., **1935**, 501; Vol. II, Foods, **1926**, 543; 2nd Ed., **1932**, 480.
- Tintometer, Ltd.** The British Pharmacopoeia antimony trichloride colour test for cod-liver oil, **1932**, 772.
- Tischer, J.** Colorimetric determination of small amounts of magnesium in pure magnesium salts, and in the presence of calcium, **1933**, 247.
- Titus, L., and Meloche, V. W.** Micro-extractor, **1934**, 136.
- Titus, R. W.** See Hughes, J. S.
- Titus, R. W., and Hughes, J. S.** Storage of manganese and copper in the animal body and its influence on haemoglobin building, **1929**, 609.
- Titus, R. W., Hughes, J. S., Hinshaw, W. R., and Fitch, J. B.** Destruction of vitamin A in milk by ultra-violet light, **1926**, 530.
- Titus, R. W., Sommer, H. H., and Hart, E. B.** Nature of the protein surrounding the fat globules in milk, **1928**, 163.
- Tocco, G., and Nyssens, A.** Method of analysis of cellulose dormate by oxidation, **1930**, 408.
- Tocher, J. F.** Errors of judgment in chemical analysis, **1926**, 338.
— Notes on variations in the composition of milk, **1926**, 606.
— Report of the County Analyst for Aberdeen for 1926, **1927**, 470; for 1927, **1928**, 280; for 1929, **1930**, 387; for 1934, **1935**, 403.
— The causes of variation in the proportion of butter-fat in milk, **1927**, 174.
— Variations in the composition of milk, **1926**, 146.
- Todd, W. R.** See Kemmerer, A. R.
- Todd, W. R., and Elvehjem, C. A.** Determination of zinc in biological materials, **1932**, 581.
- Toennies, G., and Elliott, M.** Precipitation of *l*-, *dl*- and *m*-cystine by phospho-12-tungstic acid, **1935**, 773.
- Tolbert, L. A.** See MacLeod, F. L.
- Tolkatschoff, S. A., and Portnoff, M. A.** Analysis of red phosphorus, **1930**, 768.
- Tomíček, O.** Determination of selenium and tellurium by the sesquichloride of titanium, **1928**, 59.
- Tomíček, O., and Komárek, K.** Gravimetric determination of cobalt by means of dinitrosorsorcinol, **1933**, 112.
- Tomii, R., and Kitajima, G.** Conductivity of certain vegetables and fruits. Their acidity and degree of ripening, **1933**, 551.
- Tomoda, Y.** Fermentation of cellulose by thermophilic bacteria, **1933**, 105.
- Tomoda, Y., and Taguchi, T.** Effect of sodium bisulphite on the polarising power of sugars, **1931**, 114.
- Tomori, N.** See Kőszegi, D.
- Tompsett, S. L.** Excretion of copper in urine and faeces and its relation to the copper content of the diet, **1935**, 331.
— Thiolic acid as a reagent for the determination of the inorganic iron content of biological materials, **1934**, 835.
- Tompsett, S. L., and Anderson, A. B.** Lead content of human tissues and excreta, **1935**, 72.
- Toms, F. W., and Money, C. P.** The separation of lead tetra-ethyl from solution in petroleum spirit, **1928**, 328.

- Toms, H.** Further notes on the crystalline bromides of linseed and some other drying oils, **1926**, 387.
- Oil bromide films and their use in determining the halogen absorption of oils, **1923**, 69.
- Review of Adam and Conant's *Organic Synthesis*. Vols. VIII and IX, **1929**, 443.
- Review of Bernhauer's *Einführung in die Organisch-chemische Laboratoriumstechnik*, **1935**, 788.
- Review of Caley's *Analytical Factors and their Logarithms*, **1933**, 312.
- Review of Carothers's *Organic Synthesis*. Vol. XIII, **1933**, 788; Vol. XV, **1935**, 787.
- Review of Gilman's *Organic Syntheses*. Vol. I, **1932**, 675.
- Review of Hartman's *Organic Syntheses*. Vol. XIV, **1934**, 723.
- Review of Hurd's *The Pyrolysis of Carbon Compounds*, **1929**, 689.
- Review of Kamm's *Qualitative Organic Analysis*, **1935**, 184.
- Review of Lyons and Appleyard's revision of Clowes and Coleman's *Elementary Analytical Chemistry*, 12th Ed., **1933**, 277.
- Review of McArdle's *The Use of Solvents in Synthetic Organic Chemistry*, **1926**, 274.
- Review of Pummerer's *Entwicklung und Leistungen der Organischen Strukturlehre*, **1933**, 376.
- Review of Schmidt's *A Textbook of Organic Chemistry*, **1926**, 485.
- Review of Stewart's *Recent Advances in Organic Chemistry*, **1927**, 734.
- Review of Thorpe and Whiteley's *Students' Manual of Organic Chemical Analysis, Qualitative and Quantitative*, **1926**, 55; **1927**, 312.
- Review of Wade's *Introduction to the Study of Organic Chemistry*, **1926**, 376.
- Review of Weston's *Carbon Compounds*, 6th Ed., **1935**, 435.
- Review of Whitmore's *Organic Syntheses*. Vol. XII, **1933**, 250.
- Tongue, H.** The Design and Construction of High-Pressure Chemical Plant (Review), **1934**, 513.
- Toole, E.** Polarimetric determination of nicotine in tobacco and tobacco smoke, **1933**, 625.
- Toole, E. J.** See Andreadis, T. B.
- Töpelmann, H.** Detection of tellurium in bismuth, **1931**, 63.
- Totoiescu, D.** Interference of nitric acid in the permanganate titration of iron, **1934**, 366.
- Tougarinoff, B.** Colour reactions of rhenium, **1934**, 435.
- Toulouse, J. H.** Oxygen-consuming phenomena in beverages, **1934**, 703.
- Tourtellotte, D., and Rask, O. S.** Absorption of aluminium compounds, **1931**, 608.
- Townend, D. T. A.** See Bone, W. A.
- Toyama, Y.** Body oil from sperm whale, **1927**, 726. Constitution of cetoleic acid, **1927**, 726. Constitution of zoomaric acid, **1927**, 727.
- Fatty acids of cod-liver oil, **1927**, 245.
- Toyama, Y., and Ishikawa, T.** Gadoleic acid in sei whale and humpback whale oils, **1934**, 832.
- New eicosenoic acid in pilot whale oil, **1934**, 831.
- Toyama, Y., and Tsuchiya, T.** Gadoleic acid in cod-liver oil, **1934**, 351.
- Highly unsaturated acids in herring, cod-liver, pilot whale blubber and aburazame liver oils, **1934**, 831.
- Identification of gadoleic acid in Japanese sardine oil, herring oil and liver oil of "sukesodara" (*Theragra chalcogramma*), **1934**, 352.
- New stereoisomer of elaeostearic acid from the seed oil of karasu-uri (*Trichosanthes cucumeroides*), **1935**, 571.
- New stereoisomer of elaeostearic acid in pomegranate seed oil, **1935**, 570.
- Thiocyanogen values of marine animal oils, **1930**, 292.
- Toyama, Y., and Tutiya, T.** Iodine values of linolenic, linolic and stearolic acids by the Wijs and Rosenmund-Kuhnemann methods, **1935**, 334.
- Trace, L. H.** See Lampitt, L. H.
- Trace, L. H., and Harvey, C. O.** The determination of carbon dioxide in carbonates, **1927**, 76.
- Tracy, E.** See McClendon, J. F.
- Tramm, H.** Funnel-fitting for rapid filtration, **1933**, 373.
- Traube, J.** Removal of nicotine from tobacco smoke, **1932**, 390.
- Trautz, O. R.** Contributions to the micro Dumas method, **1931**, 555.
- See also Mederl, J. B.
- Travers, A., and Franquin, —.** Determination of piperidine in a mixture of pyridine and higher homologues, **1931**, 203.
- Travers, A., and Jout, —.** Iodimetric determination of the antimonic ion, **1927**, 303.
- Travers, A., and Malaprade, —.** Constitution of dissolved molybdic acid, **1926**, 538.
- Travers, A., and Schnoutka, —.** Separation of beryllium from aluminium, **1931**, 273.
- Treadwell, F. P., and Hall, W. T.** Analytical Chemistry. Vol. I, Qualitative Analysis, 7th English Ed. (Review), **1931**, 349; 8th English Ed., **1932**, 678.
- Treadwell, W. D., and Beeli, C.** Electroscopic method for the detection of yellow phosphorus in the presence of tetraphosphorus trisulphide, **1935**, 849.
- Treadwell, W. D., and Eppenberger, W.** Loosely-bound sulphur in egg albumin, **1929**, 114.
- Volumetric method for the determination of protein solutions, **1929**, 114.
- Treadwell, W. D., and Hartnagel, J.** Determination of phosphorus in aluminium, **1932**, 798.
- Treadwell, W. D., and König, W.** Determination of alkalis as silicofluorides, **1934**, 132.
- Treadwell, W. D., and Schwarzenbach, G.** Electrometric titration of phenols in alcoholic solutions, **1928**, 398.
- Treadwell, W. D., and Zürner, T.** Determination of nitrogen by combustion in the electric arc, **1934**, 129.
- Trease, G. E.** See Driver, J. E.
- Trease, G. E., and Tingey, H.** Use of carbon tetrachloride as a reagent for phenols, **1926**, 534.
- Treblser, H. A.** See Conn, L. W.
- Treblser, H. A., Wesley, W. A., and LaQue, F. L.** Corrosion of metals by milk, **1932**, 383.

- Treichler, R.** See Fraps, G. S.
- Trevan, J. W., Boock, E., Burn, J. H., and Gaddum, J. H.** Pharmacological assay of digitalis by different methods, 1928, 445.
- Trevethick, H. P.** Oil of sumac, 1931, 614.
- Trevethick, H. P., and Dickhart, W. H.** Kapok oil and the Halphen test, 1931, 670.
- Trevethick, H. P., and Lauro, M. F.** Solubility tests of castor oil, 1929, 297.
- Trevorrow, V., and Fashena, G. J.** Determination of iodine in biological material, 1935, 628.
- Trofimuk, N. A.** Differentiation of flours by the iodine absorption and by the rapidity of sedimentation, 1927, 89.
- Trombe, F.** Direct reading manometer for low pressures, 1934, 651.
- Tropsch, H., and Mattox, W. J.** Determination of butadiene in gases, 1934, 430.
- Trotman, E. R.** Determination of dissolved oxygen in effluents, 1926, 362.
- Trotman, S. R.** Dermatitis in relation to knitted woollen goods, 1935, 714.
— Testing of dyestuffs for fastness to washing, 1927, 497.
- Trotman, S. R., and Bell, H. S.** Determination of damage in silk, 1935, 492.
- Trotman, S. R., and Frearson, T. B.** Quantitative analysis of dyestuffs, 1932, 123.
- Trotman, S. R., and Gee, G. N.** Acidity in wool, 1933, 418.
— Determination of acids in dyed wool, 1933, 174.
- Trotman, S. R., Bell, H. S., and Saunderson, H.** Some properties of chlorinated wool and the determination of damage in chlorinated knitted woollen goods, 1934, 715.
- Trtilek, J.** Diphenylcarbazide as indicator in the "mercurimetric" determination of chloride, 1934, 717.
— See also Dubsy, J. V.
- Truffaut, G., and Bezssonoff, N.** Efficacy of mixtures of natural and solubilised phosphates measured by a bacteriological method and the effect of higher plants, 1928, 235.
- Truhaut, R.** Colour reactions of meta-dinitrobenzene in alkaline solution, 1934, 60.
— See also Péronnet, M.
- Truskowski, R., and Goldmanówna, C.** Uricase and its action. VI. Distribution in various animals, 1933, 627.
- Tschelinzeff, W. W., and Nikitin, E. K.** Condensations of furan compounds. III. Condensation products of furfural with acetone in acid and alkaline media, and a new method of determining small quantities of furfural, 1934, 569.
- Tschepelawetzky, H., and Poszniakowa, S.** Bromimetric determination of ammoniacal nitrogen, 1931, 479.
- Tschernichow, J., and Guildine, E.** Colorimetric determination of uranium in low-grade ores, 1934, 367.
- Tschernichow, J. A., and Guldina, E. J.** Volumetric determination of beryllium and silicon in complex fluoride solution, 1935, 638.
- Tschernichow, J. A., and Karsajewskaja, M. P.** Determination of tantalum and niobium in wolframite, 1934, 717.
— Volumetric determination of niobium, 1935, 197.
- Tschernichow, J. A., and Uspenskaya, T. A.** Determination of stibnite sulphur in ores, 1935, 844.
- Tscherwjakow, N. I., and Ostroumow, E. A.** Determination of vanadium in uranium salts, 1935, 780.
- Tschesche, R.** Preparation of crystallised anti-beriberi vitamin from yeast, 1932, 327.
- Tschirch, A.** Identification and determination of ergot of rye, 1927, 238.
- Tschirch, E.** See Krüger, D.
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- Tso, E.** Effect of chemical preservation of eggs upon the stability of their vitamin contents, 1926, 312.
- Tsuchikawa, H.** See Ueno, S.
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- Tsujimoto, M.** A hydrocarbon in ishinagi liver oil, 1932, 265.
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— Dibasic acids in Japan wax, 1932, 266.
— Dibasic acids in sumach berry waxes (Japan wax), 1932, 266.
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— New alcohol in tarabakani liver oil, 1930, 212.
— New hydrocarbon in liver oil of the basking shark, 1935, 490.
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— Shark liver oils, 1935, 632.
— Unsaponifiable matter of calamary oil, 1932, 266.
— Unsaponifiable matter of ego oil, 1930, 153.
- Tsujimoto, M., and Koyanagi, H.** Fatty substances of Japanese shell-fish, 1935, 418.
— Fatty substances of shell-fish, 1934, 352.
— Fatty substances of shell-fish, oyster, etc., 1934, 762.
— New unsaturated acid in the kernel oil of "Akarittom" (*Parinarium laurinum*), 1933, 351.
— Unsaturated acid in the kernel fat of "Akarittom" (*Parinarium laurinum*). II, 1934, 287.
— Whale-shark liver oil, 1935, 633.
- Tucker, J. M., and Burke, T. E.** The determination of moisture in cereal products by distillation with tetrachloroethane, 1935, 663.
- Tufts, E. V.** See Greenberg, D. M.
- Tulloch, C. W.** See Fuson, R. C.
- Türkel, S.** Atlas der Bleistiftschrift (Review), 1930, 603.
— Fälschungen (Review), 1931, 141.
- Turnau, R.** See Merres, E.
- Turnbow, G. D., and Raffetto, L. A.** Ice Cream (Review), 1928, 408.
- Turner, C. F.** Appointed Additional Public Analyst for County Borough of Liverpool, 1933, 398.
- Turner, F. M.** See Atack, F. W.
- Turner, K.** Fatty acids in the liver of the sheep, 1931, 50.
— See also Ridge, B. P.

- Turner, M. E.** Simplification of Okey method for determination of cholesterol by oxidation of the digitonide, **1931**, 677.
- Turner, R. G.** Micro colorimetric method for the quantitative determination of iodine in blood, **1930**, 707.
— Stability of carotene in olive oil, **1934**, 560.
— See also Rockwood, E. W.
- Turner, R. G., and Weeks, M. Z.** Technical refinements for the micro colorimetric method of iodine in blood, **1933**, 169.
- Tuthill, E.** See Butler, A. M.
- Tutin, J.** *The Atom* (Review), **1934**, 509.
- Tutiya, T.** See Toyama, Y.
- Twyman, F.** Instruments used for spectrum analysis and absorption spectrophotometry, **1935**, 4.
— The Practice of Absorption Spectrophotometry, **1933**, 126.
- wyman, F., and Allsopp, C. B.** The Practice of Absorption Spectrophotometry, 2nd Ed., (Review), **1935**, 127.
- Tyler, A. G.** See Wilkinson, H.
- U**
- Ubbelohde, A. R.** The use of complex ions as indicators in analysis, **1934**, 339.
- Ubeda, J. S.** See Magnin, J.
- Uchida, S., Ai, S., and Nagasawa, J.** Fire-proof treatment of wood. I, Apparatus for determining the ignition-point of wood, **1935**, 498.
- Udall, P. J.** Note on the recognition and determination of the flavines, **1932**, 295.
- Uemura, T.** Japanese minerals containing rarer elements. Analysis of beryl from Iwaki Province, **1928**, 674.
- Ueno, S.** Formation of isomeric unsaturated fatty acids in the hydrogenation of oils, **1934**, 762.
- Ueno, S., and Ikuta, H.** Composition of the saturated fatty acids of Japanese great herring oil, **1930**, 409.
— The composition of the saturated fatty acids of Japanese chrysalis oil, **1934**, 745.
- Ueno, S., and Iwai, M.** Chlor-iodo and bromo-iodo compounds precipitated from fish oils, **1933**, 174.
— Constituents of menuke oil, **1934**, 352.
- Ueno, S., and Komori, S.** Itoyo fish oil, **1935**, 706.
- Ueno, S., and Kuzei, N.** Acetyl value of unsaturated fatty oils, **1930**, 646.
— Chemical structure of iso-oleic acid produced during the hydrogenation of oleic acid, **1930**, 409.
— Koryo (millet seed) oil, **1931**, 117.
- Ueno, S., and Sekiguchi, H.** Determination of aromatic nitro- and nitroso-compounds, **1933**, 778.
— Determination of *o*-toluidine, **1935**, 126.
— Estimating dyestuff intermediates by coupling, **1935**, 492.
- Ueno, S., and Yamasaki, R.** Koryan (kaoliang) oil, **1935**, 418.
— New compounds produced during the hydrogenation of fish oils, **1931**, 476.
— New higher alcohols produced during the hydrogenation of fish oils, **1931**, 414.
- Ueno, S., Inagaki, G., and Tsuchikawa, H.** Melting and solidification points of hydrogenated waxes and oils and of their fatty acids, **1932**, 113.
- Ueno, S., Yamashita, M., and Ota, Y.** Influence of ultra-violet irradiation on the nutritive value of hardened oils, **1930**, 404.
— Nutritive value of hydrogenated oils, **1928**, 443.
- Ullán, E. A.** Plantain (banana) flour, **1926**, 634.
- Unangst, R. B.** See Beal, G. D.
— See also Cox, G. J.
- Underhill, P. F., Peterman, F. I., and Krause, A. G.** Colorimetric method for the determination of tartaric acid, **1932**, 586.
- Underhill, S. W. F.** See Culhane, K.
- Urack, H.** See Beck, K.
- Urbach, C.** Photometric micro-analysis of water, **1933**, 717.
- Urbain, O. M.** See Miller, J. N.
- Urban, F.** See Steiner, A.
- Uspenskaya, T. A.** See Tschernichow, J. A.
- Utermöhlen, H.** Determination of the hydrolytic acidity of decolorising earths: New means of ascertaining their decolorising power, **1931**, 694.
- Uyeda, Y.** Analysis of the dyeing tannins by the cinchonine method, **1930**, 646.
- Uzel, R.** Silver azide as a microchemical test for silver, **1930**, 718.
— See also Švéda, J.
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- Vacher, H. C., and Jordan, L.** Determination of oxygen and nitrogen in iron and steel by the vacuum fusion method, **1932**, 60.
- Vadas, R.** Preparation of saponin products from horse chestnuts, **1928**, 103.
- Vaidya, B. K.** Action between copper salts and glycerol, **1929**, 308.
- Vaille, C.** Differentiation reactions of argyrol, collargol, electrargol and protargol, **1934**, 422.
- Vaish, B. L., and Prasad, M.** Volumetric determination of potassium dichromate and potassium permanganate in a mixture, **1933**, 148.
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- Valaer, P.** Quantitative determination of some of the constituents of rhubarb, **1931**, 817.
- Valaer, P., and Mallory, G. E.** Study of aloes and determination of some of its constituents, **1934**, 421.
- Valdecasas, J. G.** See Ochoa, S.
- Valdigué, A.** Action of Schiff's reagent on pyrimidone, **1929**, 112.
— See also Aloy, J.
- Valenzuela, A.** Composition of Philippine coffee, **1930**, 139.
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- Van Arkel, C. G.** Nephelometric determination of pepsin, **1929**, 762.
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- Van Berk, L. H.** See Kolthoff, I. M.
- Van Blarcom, H. S.** See Brubaker, H. W.
- Van Der Bie, C. J.** Comparison of commercial pectins, **1935**, 765.
- Van Der Haar, A. W.** Detection and determination of the carboxyl group by distillation with zinc dust in a stream of hydrogen, **1930**, 61.

- Van der Hulst, L. J. N.** Application of absorption spectra in oil research. Distillation of palm oil, **1934**, 509.
- Van der Lingen, G.** Elon and sodium sulphite as reducing agents in the colorimetric determination of phosphorus, **1933**, 755.
- Van der Lingen, G. W. B.** The mineral constituents of *Artemisia afra*, **1933**, 280.
— The solubility of uranyl zinc sodium acetate in alcohol of different strengths, **1932**, 376.
See also list of Errata.
- Van Der Meene, G. H. P.** See Kolthoff, I. M.
- Vap der Meulen, J. H.** Determination of Selenium in selenites, selenates and in "metallic selenium," **1934**, 505.
— Iodometric determination of chromium and manganese with persulphate, **1932**, 335.
- Van der Slik, M., and Vermeulen, J.** Determination of the total geraniol content of citronella oil, **1929**, 767.
- Van Der Steur, J. P. K.** Determination of oleic and elaidic acids in the presence of each other, **1927**, 609.
- Van Der Vlugt, L. S.** Colorimetric determination of iron with potassium thiocyanate, **1928**, 615.
- Van Dijk, J. A., Mees, R. T. A., and Waterman, H. I.** Effect of high-pressure hardening of oils for the margarine industry, **1931**, 544.
- Vandoni, R., and Algrain, M.** Rapid determination of carbon, nitrogen and hydrogen in organic substances, **1928**, 298.
- Vandoni, R., and Desseigne, G.** Volumetric determination of camphor by the hydroxylamine method, **1935**, 776.
- Van Druten, A.** Detection of small quantities of hexamethylene-tetramine in fish-preserving pickle-liquor, **1933**, 37.
— Luminescence of a genuine Dutch lard in ultra-violet light, **1929**, 347.
— Nicotine contents of Dutch cigars, **1931**, 260.
- Van Duin, C. F.** Determination of halogen in organic compounds, **1926**, 421.
- Van Eck, P. N.** Quantitative determination of aromatic aldehydes by titration with a solution of benzidine, **1928**, 174.
- Van Griffen, H. J.** Determination of theobromine in pharmaceutical preparations by Boie's method, **1933**, 101.
- Van Goetsenhoven, F.** See Frogner, R.
- Van Heuckeroth, A. W.** See Gardner, H. A.
- Van Itallie, E. I.** Thiocyanogen value of strophanthus oil and of oils of the chaulmoogra group, **1929**, 606.
- Van Itallie, L., and Steenhauer, A. J.** Microchemical identification of some barbituric acid compounds, **1931**, 136.
— Microscopic detection of barbituric acid compounds, **1930**, 717.
- Van Itallie, L., Steenhauer, A. J., and Harmsma, A.** Analysis of spirit of nitre, **1929**, 244.
- Van Iterson, J.** See Pieters, H. A. J.
- Van Liempt, J. A. M.** Invert sugar as a reagent for boric acid determinations, **1926**, 293.
- Van Liempt, J. A. M., and Visser, S. H. R.** Spectroscopic detection of argon in argon-nitrogen mixtures, **1935**, 60.
- Van Loon, J.** See Steger, A.
- Van Meurs, W. A.** See Bertram, S. H.
- Van Nieuwenburg, C. J.** Systematic qualitative analysis by means of modern drop reactions, **1931**, 483.
- Van Nieuwenburg, C. J., and Blumendal, H. B.** Cerimetric titration of small amounts of iron, with the use of *ad*-dipyridyl as an indicator, **1935**, 847.
- Van Nieuwenburg, C. J., and Dulfer, I. G.** A Short Manual of Systematical Qualitative Analysis by means of Modern Drop Reactions (Review), **1934**, 66.
- Van Pinxteren, J. A. C.** Quantitative colorimetric determination of digitalis glucosides by means of Baljet's reagent, **1932**, 179.
- Van Raalte, A.** Luminescence of oils and fats, **1928**, 617; **1929**, 110.
— New coli test, **1931**, 199.
— Separation of solid fats into their constituents, **1929**, 605.
— The freezing-point of milk, **1929**, 266.
- Van Raalte, A., and Straub, J.** Food control in Holland, **1932**, 15.
- Van Slyke, D. D.** Determination of urea by gasometric measurement of the carbon dioxide formed by the action of urease, **1927**, 551.
— Gasometric micro-Kjeldahl determination of nitrogen, **1927**, 171.
— See also Peters, J. P.
- Van Slyke, D. D., and Hiller, A.** Determination of ammonia in blood, **1933**, 768.
— Gasometric determination of methaemoglobin, **1929**, 760.
- Van Slyke, D. D., and Robscheit-Robbins, F. S.** Gasometric determination of small amounts of carbon monoxide in blood, and its application to blood volume studies, **1927**, 291.
- Van Slyke, D. D., Hiller, A., and Berthelsen, K. C.** Gasometric micro method for determination of iodates and sulphates and its application to the determination of total base in blood serum, **1927**, 651.
- Van Stolk, D.** See Dejust, L. H.
- Van Stolk, D., Durenil, E., and Heudebert.** Conditions of formation and destruction of vitamin D on the irradiation of ergosterol, **1929**, 54.
- Vanstone, E.** New method of evaluating basic slags and mineral phosphates, **1926**, 47.
- Van Urk, H. W.** Colorimetric determination of ferric iron by means of pyramidone, **1926**, 594.
— New reactions of cantharidin, **1929**, 425.
— Nitrobenzaldehyde as reagent for organic medicines, **1929**, 424.
— Reaction for the ergot of rye alkaloids, ergotamine, ergotoxine and ergotinine. Examination and colorimetric determination of rye alkaloid preparations, **1929**, 479.
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- Van Westen, H. A.** See Waterman, H. I.
- Van Wijk, A.** See Reerink, E. H.
- Van Wijk, A., and Reerink, E. H.** Vitamin D and iso-ergosterol, **1928**, 667.
- Van Zijp, C.** Ammonium molybdate as a micro-chemical reagent, **1935**, 431.
- Microchemical detection of cholesterol, **1933**, 568.
- Microchemical reactions with loretin, **1932**, 801.
- Microchemistry of coumarin, **1927**, 657.
- Micro copper-pyridine reaction for saccharin, **1934**, 850.
- Varadachar, K. S.** See Newcomb, C.
- Vásárhelya, B.** Use of isomeric amino-naphthol-sulphonic acid for colorimetric determination of phosphate, **1930**, 350.
- Vass, C. C. N.** Fastness of dyes to perspiration, **1931**, 192.
- Vass, C. C. N., and McSwiney, B. A.** Fastness of dyes to perspiration. Composition of perspiration, **1930**, 520.
- Vastagh, G.** See Schulek, E.
- Vaubel, E.** See Tillmans, J.
- Vaubel, W.** Benzenometer, **1930**, 225.
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- Vedder, E. B., and Feliciano, R. T.** Standard for beriberi-preventing rices, **1928**, 542.
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- Veibel, S.** Identification and determination of aldehydes and ketones, **1928**, 53.
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- See also Smith, W. P.
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- Vergnoux, M. S.** New reagent for the detection of nitrites in water, **1930**, 151.
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- Verwiebe, A.** See Hoyt, L. F.
- Vetter, F.** Micro-analytical methods in industrial laboratories. II, Pregl's method of combustion of carbon and hydrogen, without the use of air. III, Micro-apparatus for the gravimetric determination of water in coal and other solids, **1932**, 541.
- Use of the micro Dumas method for substances of low nitrogen content, **1933**, 424.
- Vickery, H. B.** A useful compound of histidine, **1927**, 164.
- Simpler nitrogenous constituents of yeast. I, Choline and nicotinic acid, **1930**, 468.
- Some nitrogenous constituents of the juice of the alfalfa plant. VI, Asparagine and amino acids in alfalfa, **1926**, 100.
- See also Pucher, G. W.
- Vickery, H. B., and Leavenworth, C. S.** Separation of cystine from histidine, **1929**, 677.
- Separation of histidine and arginine, **1926**, 418.
- Vickery, H. B., and Pucher, G. W.** Determination of ammonia and amide nitrogen in tobacco by the use of permutit, **1929**, 550.
- Determination of "free nicotine" in tobacco. Apparent dissociation constants of nicotine, **1929**, 754.
- Determination of nitrate nitrogen in tobacco, **1929**, 608.
- Vickery, J. R.** The yellowing of the abdominal fat of frozen rabbits, **1932**, 520.
- See also Griffiths, E.
- Vidyarathi, N. L.** See Hilditch, T. P.
- Vieweg, K.** See Hahn, F. L.
- Vigano, L.** Practical Serology (Review), **1928**, 562.
- Vigni, R.** See Bellucci, I.
- Vilella, J. R., and Beregekoff, D.** Polishing and etching lead, tin and some of their alloys for microscopic examination, **1927**, 732.
- Villard, H.** See Kohn-Abrest, E.
- Villavecchia, G. V.** Dizionario di Merceologia e di Chimica Applicata, 5th Ed. Vols. I and II (Review), **1930**, 357; Vol. III, **1932**, 69; Vol. IV, **1932**, 548.
- Vincent, V.** Measurement of the ionimetric acidity by the inversion of sucrose. Application to complex media, **1927**, 249.
- Visscher, M. B.** Determination of glucose in the presence of phosphate buffers, **1926**, 521.
- Visser, G.** See Muschter, F. J. F.
- Visser, S. H. R.** See Van Liempt, J. A. M.
- Viswanath, B.** See McCarrison, R.
- Vita, G., and Bracaloni, L.** Physico-chemical characteristics of egg-yolk oil, and its solubility in ethyl alcohol, **1933**, 619.
- Vizern, —, and Guillot, —.** Detection of castor oil in fatty mixtures, **1927**, 161.
- Differentiation of rapeseed and black mustard seed, **1926**, 262.
- Vliet, E. B., and Adams, R.** Relationship between hydrogen ion concentration and chemical constitution in certain local anaesthetics, **1926**, 527.
- Voelcker, E.** Appointed Deputy Agricultural Analyst for Berkshire, Buckinghamshire, Oxfordshire, East Riding of Yorkshire and Isle of Ely, **1930**, 566; for the County of Northumberland, **1931**, 398; for the County Borough of Oxford, **1932**, 629.
- Appointed Public Analyst for the Borough of Banbury, **1932**, 163.
- Chemical and bacteriological examination of water, **1934**, 816.
- Review of Clowes and Coleman's Elementary Analytical Chemistry—Qualitative and Quantitative, **1931**, 137.

- Voelcker, J. A.** Appointed Agricultural Analyst for the County Borough of Oxford, 1932, 519.
— Obituary of A. Chaston Chapman, 1932, 743.
— Obituary of Alfred Smetham, 1928, 566.
- Vogels, H.** Apparatus for the distillation of mercury under reduced pressure, 1934, 650.
- Vogt, E.** Occurrence of sorbitol in pure grape wines, 1935, 704.
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- Volger, H.** See Werner, H.
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- Vollersten, J. J.** See Fenger, F.
- Vollhase, E., Steinbeck, H. J., and Danielsen, E.** Egg-yolk margarine, 1930, 137.
- Volmar, Y., and Clavera, S. M.** Determination of the acidity of red wines by means of fluorescent indicators, 1931, 540.
- Volmar, Y., and Germstad, A.** Absolute essential oil of clary, 1928, 398.
- Volmar, Y., and Leber, M.** Picrolonic acid as a reagent for alkali metals, 1933, 368; for sodium, 1933, 782.
- Volmar, Y., and Mathis.** Inhibiting action of certain ions on the fluorescence of the uranyl ion and its application to inorganic chemical analysis, 1933, 570.
- von Bergkampff, E. S.** Notes on the analytical behaviour of gallium, 1933, 111.
— Separation of iron, titanium and aluminium, 1931, 337.
- von Bülow, B.** See Lockemann, G.
- Von Darányi, J., and von Vitéz, St.** Animal experiments on the influence of "improvers" in flour, 1935, 421.
- Von Der Heide, C., and Föllén, R.** "Mikrobin" in wine, 1927, 600.
- Von der Heide, C., and Hennig, K.** Detection of fruit wine in grape wine by means of dibenzalsorbitol, 1929, 422.
- Von der Heide, C., and Mändlen, H.** Occurrence of sucrase in must and wine, 1929, 355.
- Von der Heide, C., and Zeisset, W.** Determination of the extract in wine, 1935, 327.
- von Eekelen, M.** See Emmerie, A.
- von Euler, H.** See Karrer, P.
- von Euler, H., and Karrer, P.** Application of the Carr-Price reaction to carotinoids, 1932, 328.
- von Euler, H., Karrer, P., and Zehender, F.** Behaviour of vitamin C (ascorbic acid) and other reductors towards catheptic and other enzymes, 1934, 295.
- Von Fodor, K.** New reaction for capsaicin, 1931, 407.
- von Hahn, F. V.** Vitamin studies. III, Vitamin content of fruits, 1931, 548.
- von Hahn, F. V., and Görbing, J.** Influence of manuring on the content of vitamin C in spinach, 1933, 632.
- von Hahn, F. V., and Wieben, M.** Vitamin studies. V, Chemical methods for the determination of vitamins. I, Bezssonoff's reaction, 1932, 534.
- von Hevesy, G., and Alexander, E.** Praktikum der Chemischen Analyse mit Röntgenstrahlen, 1933, 652.
- von Hevesy, G., and Hobbie, R.** Determination of lead in rocks, 1932, 404.
- Von Kolnitz, H.** See Remington, R. E.
- Von Loesecke, H.** Preparation of banana vinegar, 1929, 348.
— Quantitative changes in the chloroplast pigments in the peel of bananas during ripening, 1929, 611.
- von Migray, E.** Detection of nitrous acid with indigo sols, 1933, 245.
- Von Morgenstern, F.** New value for the determination of butter-fat, 1927, 236.
— See also Rossée, —
- von Philipsborn, H.** Tabellen zur Berechnung von Mineral- und Gesteinanalysen (Review), 1933, 429. See also List of Errata.
- Von Richter, V.** Organic Chemistry. Translated by E. N. Allott, 1934, 444.
- von Szelényi, G.** Volumetric method for the determination of formic acid in fruit juices and fruit syrups, 1932, 524.
- Von Vitéz, St.** See von Darányi, J.
- von Zur-Mühlen, O.** See Funk, H.
- Vorländer, D.** Methone as a reagent for aldehydes, 1929, 485. See also List of Errata.
- Voronca-Spirt.** See Bertrand, G.
- Vorstman, N. J. M.** See Kruisheer, C. I.
- Vortmann, G.** The absence of mirror formation in Vortmann's method of separating silver and lead, 1926, 456.
- Vortmann, G., and Binder, F.** Use of uranous sulphate in volumetric analysis, 1926, 158.
- Vortmann, G., and Hecht, O.** Separation of silver from lead, 1926, 158.
- Vortmann, G., and Lieber, R.** Qualitative Chemische Analyse nach dem Schwefelnatriumgang (Review), 1934, 581.
- Vose, R. S.** See Lewis, W. L.
- Vossen, E.** Filters made of porous hard rubber, 1931, 558.
- Voyatzakis, E.** Volumetric determination of copper, 1935, 196.
- Vürthem, A.** Determination of perchlorate in Chili saltpetre by means of nitron, 1927, 251.

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- Wachsmuth, H.** See Wuyts, H.
- Waddell, J., Steenbock, H., Elvehjem, C. A., and Hart, E. B.** Iron in nutrition. IX, Further proof that the anaemia produced on diets of whole milk and iron is due to a deficiency of copper, 1929, 556.
- Waddell, S. S.** See Deuel, Junr., H. J.
- Wade, J.** Introduction to the Study of Organic Chemistry (Review), 1926, 376.
- Wagenaar, G. H.** Identification of superol (quinosol), 1934, 834.
— Anaesthesine. *p*-Amino-benzoic acid ethyl ester, 1933, 352.
— Colour reactions of different varieties of strophanthus seeds with sulphuric acid, 1933, 44.
— Colour reactions of novocaine (procaine), anaesthesine and allied compounds, which distinguish them from cocaine and similar substances, 1932, 579.
— Detection and determination of rice flour in other flours and in spices, 1928, 100.

- Wagenaar, G. H.** Detection of castor beans in feeding stuffs, **1929**, 560.
 — Detection of ketoses by a microscopic method, **1934**, 44.
 — Detection of sucrose in lactose, **1934**, 573.
 — Identification of atoxyl, **1933**, 290.
 — Identification of salvarsan, **1933**, 486.
 — Microchemical and microscopical identification of santonin, **1934**, 574.
 — Microchemical detection of coumarin, **1933**, 501, 720.
 — Microchemical detection of vanillin and piperonal, **1932**, 673.
 — Microchemical identification of novocaine (procaine), **1933**, 178.
 — Microchemical, microspectroscopical and quantitative examination of blood, **1930**, 405.
 — Microchemical reactions of homatropine, **1929**, 47.
 — Microchemical reactions of hydrastine, **1930**, 296.
 — Microchemical reactions of physostigmine, **1929**, 424.
 — Microchemical reactions of pilocarpine, **1930**, 412.
 — Microchemical reactions of piperine, **1929**, 424.
 — Microchemical reactions of pyramidone, **1935**, 575.
 — Microchemical reactions of saccharin, **1932**, 592.
 — Microchemical reactions of theobromine, **1929**, 244.
 — Microchemical reactions of veratrine, **1930**, 413.
 — Microchemistry of antipyrine, **1935**, 576.
 — Microchemistry of atophan, **1934**, 779.
 — Microchemistry of berberine, **1930**, 222.
 — Microchemistry of brucine, **1930**, 223.
 — Microchemistry of cytosine, **1930**, 349.
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 — Microchemistry of diethyl bromoacetyl urea (adaline), **1935**, 58.
 — Microchemistry of euquinine, **1934**, 506.
 — Quantitative determination of shell in cocoa and cocoa preparations, **1930**, 221.
 — Reaction of caffeine with iodine in caesium iodide solution, **1933**, 501.
 — Spectrum of haematoporphyrin and its significance in the recognition of traces of old blood-stains, **1934**, 499.
Wagner, A. Natural musk, **1926**, 593.
Wagner, E. See Dubský, J. V.
Wagner, E. C. See Fenimore, E. P.
Wagner, H., and Kolb, H. Determination of zinc in aluminium and aluminium alloys, **1933**, 53.
Wahl, A., and Sisley, J. P. Improvements in the method of elementary organic analysis, **1928**, 451.
Wahlig, W. See Berl, E.
Wahlin, —. See Beister, —.
Wakefield, E. G. Colorimetric determination of total and inorganic sulphates in blood serum, urine and other body fluids, **1929**, 300.
Wakeman, A. J. See Pucher, G. W.
Waksman, S. A., and Allen, M. C. Decomposition of pectin and pectic acid by mould fungi and formation of pectolytic enzymes, **1933**, 633.
Waksman, S. A., and Starkey, R. L. The Soil and the Microbe (Review), **1932**, 66.
Walden, G. H., Hammett, L. P., and Edmonds, S. M. Direct determination of iron in presence of vanadium by the use of a silver reductor, **1934**, 302.
Waldschmidt-Leitz, E. Enzyme Actions and Properties (Review), **1930**, 69.
Wales, H. Ethyl phthalate test, **1927**, 161.
 — U.S.P. test for soluble alkalis and alkalinity in milk of magnesia and magnesium oxide, **1934**, 763.
 — Yeast method for silver proteins, **1928**, 547.
Wales, H., and Keenan, G. L. Differentiation between light and heavy magnesium oxide, **1934**, 763.
Walker, A. C., and Quell, M. H. Influence of ash constituents on the electrical conduction of cotton, **1933**, 364.
Walker, E. Chemical constitution and toxicity **1928**, 298.
 — Colour reaction for disulphides, **1926**, 317.
 — See also Armstrong, A. R.
Walker, G. K. See Judd, D. B.
Walker, J. C. See Link, K. P.
Walker, M., and Martin, C. J. Determination of the strength of liquid hydrocyanic acid by specific gravity, **1926**, 202.
Walker, N. H. See Brubaker, H. W.
Walker, O. J., and Shukla, S. N. Analysis of mixtures of hydrogen, methane and ethane, **1931**, 274.
Walker, R. See Mottern, H. H.
Walker, T. K. See Hastings, J. J. H.
Walker, T. K., and Hastings, J. J. H. Gravimetric determination of the antiseptic constituents of hops, **1933**, 702.
Wallace, J. H., Junr. See Furman, N. H.
Wallace, T., and Zilva, S. S. Antiscorbutic potency of apples. VI, **1933**, 631.
Wallen-Lawrence, Z. See Ronzoni, E.
Waller, E. K. See Smith, W. E.
Wallis, K. Report of the Government Analyst for British Guiana for the year **1933**, **1934**, 627, **1935**, 181; for **1934**, **1935**, 619.
Wallis, T. E. A counting-field finder, **1935**, 520.
 — Practical Pharmacognosy (Review), **1926**, 56.
 — Review of Mansfield's *Microscopic Pharmacognosy*, **1930**, 531.
 — See also Evans, J.
Wallis, T. E., and Goldberg, S. Podophyllum rhizome—American and Indian, **1931**, 468.
Wallis, T. E., and Withell, E. R. Fluorescence and detection of rhapontic rhubarb, **1934**, 652; **1935**, 126.
Walmsley, J. F. ApioI, **1928**, 500.
Walsh, G. See Mason, H. M.
Walter, E. See Braun, K.
Walter, E. D. See Burrell, R. C.
Walter, G. See Grossfeld, J.
Walton, J. H. See Rosenbaum, C. K.
Walton, J. H., and Dittmar, H. R. Hydrolysis of corn (maize) starch by commercial pancreaticin, **1927**, 42.
Walton, R. P. A. A Comprehensive Study of Starch Chemistry. Vol. I (Review), **1928**, 561.

- Walton, S. G.** Report of the Government Analyst for New South Wales for the year 1930, 1932, 97.
— See also Cooksey, T.
- Walton, S. G., and O'Brien, R. G.** The use of bromine as a reagent in the determination of alkaloids, 1931, 714.
- Waltzinger, E.** Determination of benzoic acid in egg-yolk, 1927, 90.
— Diastase in mixtures of artificial and natural honeys, 1935, 256.
- Wan, S.** See Ho, K.
- Warburton, G. H.** Review of Gill's *Oil Analysis*, 11th Ed., 1927, 617.
- Warcollier, G., and Le Moal, A.** Accidental presence of acrolein in cider "brandies," 1932, 387, 578.
- Warcollier, G., Le Moal, A., and Tavernier, J.** Accidental presence of acrolein in cider and perry spirits: Its formation at the expense of the glycerol, 1934, 840.
- Ward, A. M.** See Dorrington, B. J. F.
— See also Feldstein, P.
— See also Fleck, H. R.
— See also Kny-Jones, F. G.
— See also Mitchell, A. D.
— See also Pass, A.
- Ward, C. B.** See Lamson, P. D.
- Ward, T. J.** Cap for holding Gutzeit mercuric chloride papers, 1930, 630.
— Effect of cellulose on arsenic determinations, 1926, 457.
— Erasures and offsets in ink writing, 1934, 343.
— Photomicrography of ink sediments in pen writing, 1930, 568.
— Review of Arenson's *Chemical Arithmetic*, 1933, 125.
— Review of Attix's *A Handbook of Elementary Chemistry*, 2nd Ed., 1928, 307.
— Review of Barnard and Welch's *Practical Photomicrography*, 2nd Ed., 1926, 486.
— Review of Blacktin's *Dust*, 1935, 66.
— Review of Chamot and Mason's *Handbook of Chemical Microscopy*. Vol. I, 1930, 470; Vol. II, 2nd Ed., 1931, 559.
— Review of Clay and Court's *History of the Microscope*, 1933, 649.
— Review of Dootson and Berry's *First Principles of Chemistry*, 1928, 244.
— Review of Ellis' *Sulphur Bacteria*, 1932, 679.
— Review of Engelder's *A Textbook of Elementary Qualitative Analysis*, 1934, 511.
— Review of Engelder's *Elementary Qualitative Analysis*, 1930, 417.
— Review of Engelder's *Elementary Quantitative Analysis*, 1930, 356.
— Review of Findlay's *The Spirit of Chemistry*, 1935, 578.
— Review of Firth's *Chemistry in the Home*, 1929, 625.
— Review of Fowles' *Volumetric Analysis*, 1933, 62.
— Review of Glasstone's *Chemistry in Daily Life*, 1930, 157.
— Review of Hall's *Textbook of Quantitative Analysis*, 1931, 422.
— Review of Hampshire's *Volumetric Analysis*, 4th Ed., 1927, 311.
- Ward, T. J.** Review of Hilditch's *The Industrial Chemistry of the Fats and Waxes*, 1928, 63.
— Review of Hilger's *Recent Applications of Absorption Spectrophotometry*, 1932, 482.
— Review of Hind and Randle's *Handbook of Photomicrography*, 2nd Ed., 1927, 561.
— Review of Holleman's *A Textbook of Organic Chemistry*, 6th Ed., 1926, 650.
— Review of Kingzett's *Chemical Encyclopaedia*, 5th Ed., 1932, 809.
— Review of Lane and Eynon's *Determination of Reducing Sugars by Fehling's Solution with Methylene Blue Indicators*, 1934, 852.
— Review of Lawrie's *Textile Microscopy*, 1928, 407.
— Review of Martin and Johnson's *Practical Microscopy*, 1932, 203.
— Review of Martindale and Westcott's *The Extra Pharmacopoeia*, 1928, 513; 1930, 229.
— Review of Neblette's *Photography: Its Principles and Practice*, 1928, 64.
— Review of Perkin and Kipping's *Organic Chemistry*, 1933, 573.
— Review of Piney's *Recent Advances in Microscopy. Biological Applications*, 1931, 695.
— Review of Schimpf's *Essentials of Volumetric Analysis*, 4th Ed., 1927, 368.
— Review of Spencer's *Elementary Practical Physical Chemistry*, 1928, 63.
— Review of Thaysen and Bunker's *The Microbiology of Cellulose, Hemi-Celluloses, Pectin and Gums*, 1927, 500.
— Review of Tinkler and Masters' *Applied Chemistry*. Vol. I, 1929, 311.
— Review of Van Nieuwenburg and Dulfer's *Manual of Systematical Qualitative Analysis by means of Modern Drop Reactions*, 1934, 66.
— Review of Ware's *Essentials of Qualitative Chemical Analysis*, 1929, 438.
— The detection of free metal particles in dust, etc., 1933, 28.
— The microchemical identification of ink in handwriting, 1934, 621.
— See also Mitchell, C. A.
- Wardlaw, W.** Qualitative Analysis, 1929, 130.
- Ware, A. H.** A new and sensitive test for nitrates applicable in the presence of nitrites, 1927, 322.
— New specific tests for distinguishing carbolic acid, the cresols and certain other phenols, 1927, 335.
— Tests for phenols involving the use of hydrogen peroxide, 1929, 561.
— Use of aldehydes and di-hydroxy acetone in the detection and differentiation of phenols, 1929, 614.
— Use of iron reagents in the detection and differentiation of phenols, 1929, 58.
- Ware, A. H., and Smith, V.** Precipitation of alkaloids by tannins and the use of anti-pyrine in the detection of tannins, 1933, 703.
- Ware, J. C.** Analytical Chemistry (Review), 1932, 413.
— Essentials of Qualitative Chemical Analysis (Review), 1929, 438.
— The Chemistry of the Colloidal State (Review), 1930, 471.
- Warning, W. G.** See Moss, H. V.
- Warren, B. J. W.** See Black, J. W.

- Warren, L. E.** Assay of ipomoea, 1930, 639.
 — Assay of jalap, 1929, 608.
 — Assay of resin of podophyllum, 1930, 284; tablets, 1931, 752.
 — Assay of sulphonal tablets, 1928, 105.
 — Assay of trional tablets, 1928, 545.
 — Comparison of several processes for the assay of podophyllum, 1927, 549.
- Warren, R. G., and Pugh, A. J.** Colorimetric determination of phosphoric acid in hydrochloric acid and citric acid extracts of soils, 1931, 128.
- Warren, R. G., Gimingham, C. T., and Page, H. J.** Determination of fluorine in basic slag, 1926, 101.
- Waser, E., and Stähli, M.** (Hydrocyanic acid in) tobacco smoke, 1934, 356.
 — Investigations on tobacco smoke. I, 1933, 45; II, 1933, 165.
- Washington, H. S.** The Chemical Analysis of Rocks, 4th Ed. (Review), 1931, 278.
- Wasitzky, A.** A simple micro Soxhlet extractor, 1933, 56.
 — Collected references. Carbohydrates. II, 1935, 274.
 — Collected references. Detection and determination of small amounts of cholesterol and other sterols, 1934, 438.
 — Collected references. Micro methods of determination of proteins in medicine and biology, 1934, 303.
- Wassilieff, A., and Matwejef, N.** Gravimetric determination of potassium as di-potassium sodium cobaltinitrite, 1930, 650.
- Wassilieff, A., and Stutzer, H.** Permanganate titration of antimony in white metal, 1929, 620.
- Wassiljew, A. A.** Gravimetric determination of acetylene from calcium carbide, 1931, 617.
 — Volumetric determination of cobalt in potassium cobaltinitrite, 1930, 67.
- Wassilieff, N.** See Rupe, H.
- Waterhouse, E. F.** See Schoeller, W. R.
- Waterhouse, E. F., and Schoeller, W. R.** Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. XXII, The separation of the earth acids from metals of the hydrogen sulphide group, 1932, 284.
- Waterman, E. W.** See Weatherby, L. S.
- Waterman, H. C.** Determination of casein in milk by an approximately iso-electric precipitation, 1927, 548.
- Waterman, H. C., and Lepper, H. A.** Method for the determination of milk proteins in cacao products, 1927, 350.
- Waterman, H. I.** See Van Dijk, J. A.
- Waterman, H. I., and Elsbach, E. B.** Citronellal and the citronella oils, 1928, 556.
 — Determination of citronellal, 1930, 64.
- Waterman, H. I., and Nijholt, H. J.** Distillation of coconut oil at very low pressures, 1927, 420.
- Waterman, H. I., and Oosterhof, D.** Polymerisation of linseed oil, 1933, 786.
- Watkins, H. R., and Palkin, S.** Errors in analysis of alkaloids caused by the presence of fatty acid or soap, 1927, 290.
- Waterman, H. I., and Priester, R.** Aromatic allyl and propenyl compounds. I, Safrol and isosafrol, 1928, 555.
- Waterman, H. I., and Van Vlodrop, C.** Differences between biologically active substances before and after isolation from the raw material in which they occur, 1934, 498.
- Waterman, H. I., Bertram, S. H., and Van Westen, H. A.** Application of the hydrogen value to unsaturated fatty acids, 1929, 252.
- Waterman, H. I., Perquin, J. N. J., and Van Westen, H. A.** Determination of the hydrogen value of unsaturated compounds, 1929, 119.
- Waterman, R. E.** See Williams, R. R.
- Waters, C. E.** Blue dyes as evidence of the age of writing, 1933, 776.
- Watkins, H. R.** See Palkin, S.
- Watridge, R. W.** Appointed Additional Public Analyst for the County Council of the Isle of Wight, 1934, 344.
- Watson, C., Finlay, T. Y., and King, J. B.** Therapeutic value of irradiated milk in the treatment of rickets, 1929, 673.
- Watson, C. J.** Isolation of crystalline sterco-bilin, 1934, 557.
- Watson, D. C.** Unrecognised toxic substances in human faeces, 1928, 114.
- Watson, H. E.** See Joglekar, R. B.
- Watson, K. M.** See Hougen, O. A.
- Watson, S. J., Bishop, G., and Drummond, J. C.** Relation of the colour and vitamin A content of butter to the nature of the ration fed. (I) Influence of the ration on the yellow colour of butter, 1934, 708.
- Watt, J. M., Heimann, H. L., and Epstein, E.** Solanocapsine, a new alkaloid with a cardiac action, 1933, 173.
- Wattenberg, H.** Direct nesslerisation of ammonia in sea-water, 1931, 208.
- Waugh, W. A., and King, C. G.** Isolation and identification of vitamin C, 1932, 583.
- Wdowiszewski, H.** Determination of tungsten in steel as hydrated tungstic acid, 1932, 196.
- Wearn, J. T., and Richards, A. N.** Quantitative determination of minute amounts of urea, 1926, 154.
- Weatherby, L. S., and Chesny, H. H.** Use of glucose syrup in the titration of borax, 1926, 538.
- Weatherby, L. S., and Waterman, E. W.** Vitamin B content of avocados, 1928, 667.
- Webb, H. W.** See Schoeller, W. R.
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- Webber, I. E.** Histological characteristics of plants grown in toxic concentrations of boron, 1935, 489.
- Weber, C. J.** Determination of the guanidine bases in urine, 1928, 502.
- Weber, H.** Distinction of isoamyl, isobutyl and *n*-butyl alcohols from one another, from the lower alcohols, and from amyl and butyl acetates by means of ammonium cobalthiocyanate, 1930, 208.
- Weber, H. H.** Colorimetric detection of trichloroethylene, carbon tetrachloride and other aliphatic chlorinated hydrocarbons in technical solvents, 1934, 57.
- Weber, K.** Optical determination of sodium nitrite, 1932, 674.

- Weber, L. E.** The Chemistry of Rubber Manufacture (Review), 1926, 433.
- Weber, P., and Dunlap, H. L.** Solubility of paraffin wax in pure hydrocarbons, 1928, 397.
- Webster, H. L.** See Conn, L. W.
- Webster, T. A.** See Askew, F. A.
— See also Rosenheim, O.
- Webster, T. A., and Bourdillon, R. B.** Irradiation of ergosterol, 1929, 52.
- Weeks, M. E.** Internal indicator for the dichromate titration of iron, 1932, 404.
- Weeks, M. Z.** See Turner, R. G.
- Weijdenfeld, L.** See Feigl, F.
- Weidlich, G.** See Schrempf, A.
- Weigle, O. M.** See Bartow, E.
- Weiler, G.** See Hahn, F. L.
- Weinberg-Sachetti, E.** See Draghenesco, A. L.
- Weinfurter, F.** See Liers, H.
- Weinstein, L. L., and Benedetti-Pichler, A. A.** Determination of the volatile constituents of copper-zinc alloys, 1932, 740.
- Weinstein, P.** Catalase reaction of milk, 1930, 581.
— Test for amylase in milk, 1930, 582.
— Tests for the degree of heating of milk, 1929, 237.
- Weinstein, P., Muesmann, J., and Bodschwinn, W.** Detection of Riegel's "new preservative for pumpernickel," 1931, 542.
- Weinstock, M.** See Hess, A. F.
- Weinzierl, J.** See Funk, H.
- Weir, A. A.** Data used in graph for beeswax, 1926, 181.
- Weisberg, H.** See Lehrmann, L.
- Weiser, H. B.** Colloid Symposium Annual. Vol. VII (Review), 1930, 421.
— Inorganic Colloid Chemistry. Vol. I, Colloidal Elements (Review), 1933, 787. Vol. II, Hydrous Oxides and Hydroxides, 1935, 728.
- Weiss, F.** Detection and determination of *p*-hydroxybenzoic acid and its esters in food-stuffs, 1930, 584.
— Detection and determination of *p*-hydroxybenzoic acid methyl ester in foods, 1928, 291.
— Detection and determination of oxymethylfurfural in honey and artificial honey, 1930, 135.
— Detection of *p*-chlorobenzoic acid in presence of benzoic acid, 1934, 196.
— Examination of lard in ultra-violet light, 1929, 178.
— See also Griebel, C.
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- Weissmann, G.** Determination of phenacetin, aspirin and antifebrin, 1933, 412.
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- Wellings, A. W.** Further examples of the use of adsorption indicators in volumetric analysis, 1933, 331.
— The direct titration of soluble orthophosphates with lead acetate in the presence of dibromofluorescein as adsorption indicator, 1935, 316.
- Wells, C. F.** See Dunbar, B. A.
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- Wells, R. C.** Analysis of samarskite, 1928, 355.
- Wen, S. H.** See Ho, K.
- Wendel, W. B.** Note on the determination of lactic and pyruvic acids, 1933, 712.
- Wenger, P.** See Cimerman, Ch.
- Wenger, P., Cimerman, C., and Bongland, P.** Micro-determination of calcium in serum, 1934, 650.
- Wenger, P., Cimerman, Ch., and Maulbetsch, A.** Micro-determination of urea in blood, 1934, 507.
— Rapid micro method for the determination of uric acid in urine, 1934, 507.
- Wenker, H.** Indicator properties of dinitroaniline azo dyestuffs, 1935, 270.
— Nitrazine yellow, a new indicator, 1934, 365.
- Wentzel, H.** Practical siphon, 1929, 125.
- Wensch, A.** Detection of very small quantities of nicotine, 1934, 556.
— Occurrence of hydrogen sulphide in tobacco smoke, 1935, 830.
— Occurrence of resins in tobacco smoke, 1935, 260.
- Wenzke, H. H.** See Pflaum, D. J.
- Werder, J.** Detection of apple and other fruit juices in wine, 1929, 476.
- Werkman, C. H.** See Stahly, G. L.
- Werner, E. A.** A simple and rapid procedure for the purification of ether and of acetone, 1933, 335.
- Werner, H.** Action of iodine monochloride on cholesterol. Determination of the iodine value, 1931, 475.
— Micro-determination of iodine in common salt, 1931, 341.
— See also Schmalfluss, H.
- Werner, H., and Volger, H.** Detection of rye and wheat flour in mixtures by the trifruc-tosan content, 1935, 702.
- Wernitz, J. H.** See Taylor, T. C.
- Werz, W.** Determination of molybdenum in steel and its separation from tungsten, 1935, 340.
— Iodimetric determination of vanadium in alloy steels and ferrovanadium, 1930, 769.
— Revision of the new iodimetric determination of vanadium in alloy steels and ferrovanadium, 1931, 339.
— See also Roesch, K.
- Wesley, W. A.** See Trebler, H. A.
- West, A. P.** See Cruz, A. O.
— See also Imperial, G. A.
— See also Jovellanos, C. M.
— See also Oreta, A. T.
— See also Santiago, S.
— See also Smith, F. L.
- West, C.** See Kidd, F.
- West, C. J.** Annual Survey of American Chemistry, 1929, 130.
- West, C. J., and Berolzhéimer, D. D.** Bibliography of Bibliographies on Chemistry and Chemical Technology, 1933, 126.
- West, E. S.** See Eaton, E. P.
— See also Peterson, V. L.
— See also Steiner, A.
- West, E. S., and Peterson, V. L.** Determination of reducing sugars of urine, 1933, 233.
- West, E. S., and Steiner, A.** Chemical nature of fermentable sugar of normal and starvation urine, 1933, 233.

- West, E. S., Hoagland, C. L., and Curtis, G. H.** New method for the determination of acetyl values of lipids, applicable to hydroxylated fatty acids, **1934**, 429.
- West, R.** See Dakin, H. D.
- West, W.** See Kendall, J.
- Westall, R. G.** See Chibnall, A. C.
- Westcott, W. W.** See Martindale, W. H.
- Westfall, B. B.** See Haring, M. E.
- Weston, F. E.** A Scheme for the Detection of the More Common Classes of Carbon Compounds, 6th Ed. (Review), **1935**, 435.
- Westwood, J. B.** See Fletcher, L.
- Weygand, C.** Quantitative Analytische Mikromethoden der Organischen Chemie in Vergleichender Darstellung (Review), **1932**, 415.
- Wheat, W. N.** See Friend, J. N.
- Wheeler, A. S., and Harris, C. R.** Borneol in spruce turpentine, **1926**, 49.
- Wheeler, E.** The Manufacture of Artificial Silk (Review), **1928**, 623; 2nd Ed., **1931**, 213.
- Wheeler, R. V.** See Burgess, M. J.
— See also Coward, H. F.
— See also Francis, W.
— See also Hibbott, H. W.
- Wheeler, T. S.** Review of Arnall and Hodges' Theoretical Organic Chemistry. Part 1, **1927**, 54.
— Review of Bone and Townend's *Flame and Combustion in Gases*, **1927**, 734.
— Review of Coleman and Arnall's *The Preparation and Analysis of Organic Compounds*, **1926**, 599.
— Review of Everest's *The Higher Coal-Tar Hydrocarbons*, **1928**, 114.
— Review of Simpkin, Sinnatt and Associates' *Coal and Allied Subjects: Compendium II*, **1927**, 179.
— See also Reilly, J.
- Whelan, M.** Colorimetric method for the quantitative determination of nitrates and nitrites in biological fluids, **1930**, 337.
- Whipple, G. C.** The Microscopy of Drinking Water (Review), **1928**, 359.
- White, F. T.** See Cameron, A. T.
- White, H. I.** Use of solid carbon dioxide in the determination of tin, **1934**, 716.
- White, J.** Obituary of Leonard Archbutt, **1935**, 579.
— Spring clip for Gutzeit tube, **1927**, 700.
- White, P. B.** Further Studies of the Salmonella group (Medical Research Council Special Report, 103), **1926**, 632.
— Review of Manteufel's *Serologische Verfahren der Nahrungsmitteluntersuchung*. Part 4, **1927**, 308.
- White, R.** See Moore, H. C.
- White, R. G.** Effect of pasteurisation on the infectivity of the milk of tuberculous cows, **1926**, 156.
- Whitehead, H. R.** Influence of sunlight on milk, **1932**, 117.
— Reduction of methylene blue in milk. The influence of light, **1930**, 594.
— Studies in bacterial nutrition. III, Phosphates and the growth of streptococci, **1927**, 243.
- Whitehead, T. H.** Qualitative detection of casein in woods, **1933**, 365.
- Whitehorn, J. C.** Chemical method for estimating epinephrine (adrenaline) in blood, **1935**, 331.
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- Whitmore, F. C.** Editor of *Organic Syntheses*. Vol. VII (Review), **1928**, 514; Vol. XII, **1933**, 250.
- Whitmore, W. F., and Schneider, H.** Chemical microscopy of gold and the platinum group, **1935**, 781.
- Whitmoyer, R. B.** Determination of small amounts of dextrose, laevulose and invert sugar in the absence and presence of sucrose, **1934**, 702.
- Whitnah, C. H.** Indications of glucose in milk, **1931**, 184.
- Whittaker, C. M.** Empirical classification of vat dyestuffs, **1932**, 332.
- Whittaker, C. W., Lundström, F. O., and Hill, W. L.** Determination of mono-calcium phosphate by means of urea, **1935**, 334.
- Whittaker, R. M., and Glickmann, I.** Oxidation of rotenone by copper in an alkaline medium, **1935**, 188.
- Wiardi, P. W., and Jansen, B. C. P.** Isolation of heteroxanthine from yeast, **1934**, 291.
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- Wichmann, H. J., and Dahle, D.** Determination of small quantities of fluorine by the Steiger-Merwin reaction. I, Optimum conditions and interference. II, Details of procedure, **1934**, 132.
- Wichmann, H. J., and Others.** Methods for the determination of lead in foods, **1934**, 289.
- Wick, R. M.** Analysis of silver plating solutions, **1932**, 269.
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- Widmer, A., and Kalberer, O. E.** Detection of fruit wine in wine by means of a microscopical examination of the turbidity, **1927**, 481.
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- Wiesenberger, E.** Micro-gravimetric determinations with minute quantities of material, using the electro-magnetic micro-balance, **1932**, 275.
- Wijs, J. J. A.** The Wijs method as the standard for iodine absorption, **1929**, 12.
- Wikoff, H. L., Busey, M., and Kaplan, A. M.** Analytical constants of peanut butter, **1934**, 355.
- Wilborn, F.** New acid in the oil of *Conepiza grandiflora* Benth, **1931**, 549.
- Wilcox, L. V.** Colorimetric determination of fluoride by means of a photronic colorimeter, **1934**, 503.
- Wildman, J. D.** See Keenan, G. L.
- Wiley, R. C.** Separation of calcium and magnesium by the molybdate method, **1931**, 417.

- Wiley, R. C., Ambrose, P. M., and Bowers, A. D.** Titration of lead salts, **1931**, 63.
- Wilkie, A. L.** Purification of palmitic and stearic acids, **1928**, 109.
- Wilkinson, E. R.** See Severyns, J. H.
- Wilkinson, H., and Tyler, A. G.** Stability of titanous sulphate solutions in air, **1927**, 363.
— Volumetric analysis of malachite green with titanous sulphide and titanous chloride solutions, **1927**, 362.
- Wilkinson, J. F.** See Klein, L.
- Willard, H. H., and Boldyreff, A. W.** Determination of mercury with hydrazine or stannous chloride, **1930**, 293.
- Willard, H. H., and Thompson, J. J.** Determination of mercury as periodate, **1931**, 830.
— Determination of perchlorate, **1930**, 653.
— Micro-determination of halogens and metals in organic compounds, **1930**, 529.
— Volumetric determination of manganese after oxidation by periodate, **1931**, 831.
- Willard, H. H., and Winter, O. B.** Volumetric method for determination of fluorine, **1933**, 242.
- Willard, H. H., and Young, P.** Ceric sulphate as a volumetric oxidising agent. I, Preparation and standardisation of solutions. Determination of calcium. II, Determination of iron, **1928**, 404. VIII, Determination of chromium, **1929**, 190.
— Determination of vanadium in alloy steels, **1932**, 407.
— Determination of vanadium in the presence of chromium, tungsten and iron by titration with ceric sulphate solution, **1928**, 674.
— Volumetric determination of certain organic acids with ceric sulphate, **1930**, 210.
— Volumetric determination of mercurous mercury with ceric sulphate, **1930**, 295.
— Volumetric determination of tellurous acid with ceric sulphate, **1930**, 295.
— Volumetric determination of thallium with ceric sulphate, **1930**, 217.
- Willard, M. L.** See Sandrus, H. J.
- Willcox, Sir W. H.** Recent advances in toxicology, **1928**, 114.
— Review of Kitchin's *Review of the Effects of Alcohol on Man*, **1932**, 280.
— The biological test for blood, **1928**, 2.
— The Dangerous Drugs Act, **1926**, 319.
- Willcox, Sir W. H., and Mitchell, C. A.** A case of metacetaldehyde poisoning, **1927**, 528.
- Williams, A. L.** Locust-kernel gum and oil, **1928**, 411.
— See also Lerrigo, A. F.
- Williams, A. S., Muller, R. H., and Niederl, J. B.** Quantitative micro-determination of certain hydroxy acids by means of the photo-electric cell, **1931**, 619.
- Williams, E. F.** See Chibnall, A. C.
- Williams, G. D., and Fulton, C. C.** Microscopic identification of heroin, **1933**, 766.
- Williams, H. A.** Appointed Additional Public Analyst for the Metropolitan Borough of Deptford, **1934**, 344; of Shoreditch, **1934**, 403; Public Analyst* for Metropolitan Borough of Woolwich, **1933**, 91.
— Tin and lead in canned fish, **1935**, 683.
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- Williams, I. M.** Determination of added disodium phosphate in process cheese, **1927**, 648.
- Williams, J. F.** Rapid determination of alcohol in distilled spirits and of colour in whisky, **1926**, 583.
— See also Riegel, E. R.
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- Williams, K. A.** Melting point of hydrogenated cotton-seed oil, **1928**, 110.
— Review of Lund's *Les Relations entre les Constantes des Matières Grasses*, **1927**, 438.
— Review of Shriner and Fuson's *The Systematic Identification of Organic Compounds*, **1935**, 852.
— Review of Southcombe's *Chemistry of the Oil Industries*, 2nd Ed., **1927**, 312.
— See also Bolton, E. R.
- Williams, R.** See Robinson, G. W.
- Williams, R. D.** Determination of phenol in ammonia liquor and other solutions, **1927**, 360.
- Williams, R. D., and Olmsted, W. H.** Biochemical method for determining indigestible residue in faeces, **1935**, 330.
- Williams, R. J.** An Introduction to Biochemistry (Review), **1932**, 481.
- Williams, R. J., and Lasselle, P. A.** Identification of creatine, **1926**, 198.
- Williams, R. J., McAlister, E. D., and Roehm, R. R.** Rapid and accurate method for determination of the quantity of yeast or other micro-organisms in a suspension, **1929**, 613.
- Williams, R. R., and Waterman, R. E.** Solubility of vitamin B in benzene, **1926**, 470.
— The tripartite nature of vitamin B, **1928**, 505.
- Williams, R. R., Waterman, R. E., and Gurin, S.** The Jansen and Donath procedure for the isolation of antineuritic vitamin, **1930**, 590.
- Williams, W. C.** Report of Public Analyst for the County of Lancaster for the year 1925, **1927**, 28.
- Willimott, S. G.** An investigation of solanine poisoning, **1933**, 431.
— Edible and poisonous fungi of Cyprus, **1933**, 553.
— Pigment of the fat of certain rabbits, **1928**, 663.
— Report of the Government Analyst for Cyprus for the year 1929, **1931**, 458; for 1930, **1932**, 99; for 1931, **1932**, 780; for 1932, **1934**, 41; for 1933, **1935**, 179.
— The vitamins of orange juice, **1928**, 294.
— See also Wokes, F.
- Willimott, S. G., and Wokes, F.** Dried yeast and yeast extracts, **1928**, 609.
— Vitamin content of Tinct. Limonis Fortis, B.P.C., **1926**, 530.
— Vitamins and other constituents of grapefruit rind, **1927**, 241.
— Vitamins A and D of spinach, **1927**, 652.
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— Rapid determination of phosphine in gases, **1927**, 558.

- Wilmet, M.** Sensitiveness of some reagent papers towards gaseous hydrogen phosphide, 1927, 487.
- Wilsdon, B. H., and McConnell, F. J.** Measurement of atmospheric sulphur pollution by means of lead peroxide, 1935, 122.
- Wilson, A. A., and Bennett, J. N.** Colour reactions of logwood, sappan and sanders wood, 1928, 454.
- Wilson, D. M.** Analysis of asphalt, bitumen and tar materials used in road construction, 1935, 117.
— New B.S.I. specification (for asphaltic compositions) and the chemist, 1935, 839.
— Verification of specifications for asphalt, 1935, 493.
- Wilson, E. G.** See Atkins, W. R. G.
- Wilson, H. F.** See Marvin, G. E.
- Wilson, H. F., and Mattingley, F.** The use of the potassium iodide and iodate method for the titration of Kjeldahl distillates, 1926, 569.
- Wilson, J. A.** The Chemistry of Leather Manufacture (Review), 1928, 463; 2nd Ed. Vol. II, 1930, 230.
- Wilson, J. B.** Determination of methyl alcohol in alcoholic products, 1935, 776.
— See also Sale, J. W.
- Wilson, J. B., and Keenan, G. L.** Identification of flavouring constituents of commercial flavours, 1930, 638.
- Wilson, J. B., and Sale, J. W.** Analysis of commercial vanilla oleoresins, 1926, 253.
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- Wilson, W. H.** Reaction of fatty extracts of certain organs with the antimony trichloride test for vitamin A, 1928, 48.
- Wilson, W. J.** Isolation of *Bacillus typhosus* from sewage and shellfish, 1928, 451.
- Wimmer, C. P., and Kennedy, M. H.** Ultra-violet radiation of essential oils, 1930, 468.
- Windhausen, O.** Toxicology of methyl alcohol, 1926, 590.
— See also Dinslage, E.
- Windisch, W., Kolbach, P., and Winter, M.** Analysis of the bitter substances of hops, 1929, 422.
- Wingarden, H. M.** See Raymond, A. L.
- Winfield, F. T.** See Prideaux, E. B. R.
- Winkelmann, J.** New method of carrying out "spot" tests, 1933, 116.
— New method of preparative microchemistry, 1934, 506.
- Winkler, L.** Ausgewählte Untersuchungsverfahren für das Chemische Laboratorium, 1932, 602.
— Die Chemische Analyse, 1931, 698; 1933, 126.
- Winkler, P. E.** Volumetric determination of antimony and arsenic, 1928, 112.
- Winkler, W. O., and Sale, J. W.** Detection of added lecithin in chocolate products, 1932, 43.
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- Winter, O. B.** See Willard, H. H.
- Winter, O. B., and Bird, O. D.** Determination of aluminium in plant materials, 1929, 751.
- Winter, O. B., Thrun, W. E., and Bird, O. D.** Study of the use of aurintricarboxylic acid for the colorimetric determination of aluminium, 1929, 680.
- Winton, A. L., and K. B.** Structure and Composition of Foods. Vol I, Cereals, Nuts and Oil Seeds (Review), 1932, 545. Vol. II, Vegetables and Fruits (Review), 1935, 852.
- Wirick, A. M.** See Bills, C. E.
- Wirjodihardjo, W.** See Hardon, H. J.
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- Wiseman, C. E.** Determination of fat in chocolate, 1930, 684.
- Withell, E. R.** See Wallis, T. E.
- Withey, W. H., and Millar, H. E.** Determination of aluminium oxide in aluminium, 1926, 425.
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— See also Reed, R. D.
- Wodlinger, M. H.** Patents Section of Bibliographical Survey of Vitamins, 1650–1930, 1933, 186.
- Wogrinz, A.** Determination of silver in cyanide solutions, 1932, 669.
- Wohnlich, E.** See Gronover, A.
- Wokes, F.** Colour tests for sterols and for vitamin A. II, Spectroscopic study of the vibrations attributed to vitamin A, 1928, 664.
— Standardisation of tincture of digitalis, 1929, 426.
— Studies on colour tests for sterols and vitamin A. I, Sterol tests, 1928, 550.
— The acetonitrile test for thyroid, 1935, 485.
— See also Dyer, F. J.
— See also Willimott, S. G.
- Wokes, F., and Crocker, H.** Biological and spectroscopic tests on ergot alkaloids, with notes on the Maurice Smith colour test, 1932, 45.
- Wokes, F., and Irwin, J. H.** Use of certain carbohydrates and glucosides in the differentiation of members of the salmonella group of bacilli, 1927, 604.
- Wokes, F., and Willimott, S. G.** A study of antimony trichloride as a possible quantitative reagent for vitamin A, 1927, 515.
— Some properties of ergosterol, 1928, 610.
- Wolesensky, E.** Determination of sulphur in rubber by the perchloric acid method, 1929, 61.
- Wolf, H., and Heilingötter, R.** Volumetric determination of tin, 1929, 680.
- Wolff, J.** Presence in various fungi of an unknown oxydase, 1926, 206.
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- Woo, S. C., and Yost, D. M.** Volumetric determination of iridium, 1931, 336.
- Wood, —.** See Beister, —.
- Wood, D. R.** A simple calculation of the limit of value of the microscopical examination of milk for tubercle bacilli, 1931, 179.
- Examination of milk for tubercle bacilli, 1930, 544.
- Nitrates in milk as evidence of added water, 1932, 375.
- Report of the County Analyst and Bacteriologist for the County of Somerset for the year 1926, 1928, 36; for 1928, 1929, 231; for 1931, 1932, 246.
- Review of Giltner's *General Microbiology*, 1928, 362.
- Review of Tanner's *Bacteriology*, 1929, 688.
- Wood, D. R., and Illing, E. T.** Investigation of the occurrence of *B. abortus* (bang) in the milk of English herds (County of Somerset), 1931, 105.
- Sterilisation of sea-water by means of chlorine, 1930, 125.
- Wood, D. R., Illing, E. T., and Fletcher, A. E.** Note on the diphenylamine test for nitrates in milk and its reliability in the presence of small quantities of chlorine, 1934, 400.
- The diphenylamine test for nitrates in milk as a means of detecting added water, and the effect of drenching cows with "nitre," 1931, 248.
- The diphenyl-benzidine test for nitrates in milk as a means of detecting added water, and the effect of drenching cows with "nitre," 1933, 149.
- Wood, E. C., and Simpson, T. W.** An improved method for the routine determination of fat in faeces, 1934, 817.
- Wood, F. M.** Observations on the action of chlorine on lignified tissues, 1934, 569.
- Wood, J. K.** Chemistry of Dyeing (Review), 1927, 255.
- Wood, T. B.** A Course of Practical Work in Agricultural Chemistry for Senior Students, New Ed. (Review), 1933, 252.
- Wood, W. A.** X-ray examination of lithopones, 1930, 657.
- Woodard, W. A., and Cowland, A. N.** Stability of aqueous solutions of gallo-tannin, with reference to tannic acid treatment of burns, 1933, 553.
- The question of tannin in maté, 1935, 135.
- Woodard, W. A., and Pickles, J.** Stability of mixtures of hydrogen peroxide and ethyl alcohol, 1935, 47.
- Woodhead, S. A.** Note on fur dermatitis, 1934, 815.
- Woodman, H. E., and Stewart, J.** Composition of flaked maize, 1927, 244.
- Woodman, R. M.** Evaluation of sulphur suspensions used in spraying, 1932, 399.
- Woodroffe, D.** Determination of fat in leather, 1929, 188.
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- Woodward, G. E.** Glyoxalase as reagent for the quantitative micro-estimation of glutathione, 1935, 423.
- Woog, P., Sigwalt, R., and de Saint-Mais, J.** Rapid method for determining hydrogen sulphide in gaseous mixtures, 1935, 640.
- Wooldridge, W. R.** The "stability test" of sewage and its relation to enzyme activity, 1933, 490.
- Worrall, W. R.** Tables of Incompatibles (Review), 1935, 348.
- Woynoff, K.** Antipyrine as a reagent for cobalt, 1932, 60.
- Wrangel, M.** Determination of potassium in dilute solutions, 1931, 486.
- Wright, A. M., and Forsyth, J. C.** Edible viscera, 1927, 159.
- Wright, A. M., and Thompson, I.** Titre of New Zealand mutton tallows, 1928, 166.
- Wright, C. H.** Soil Analysis (Review), 1934, 654.
- The hot springs of Nasavusavu, 1926, 235.
- Wright, J. O.** Comparison of the sensitiveness of various tests for methanol, 1927, 482.
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- Wright, S. L., Junr.** Note on colorimeter correction curves, 1927, 97.
- Wright, W.** Obituary of H. C. H. Candy, 1935, 730.
- Wülfert, K.** Determination of small amounts of iodine in organic materials rich in iron, 1930, 415.
- Wunshendorff, H., and Valier, P.** Qualitative separation of cobalt from nickel by means of ammonium phosphate, 1934, 502.
- Wuyts, H.** New reactions of reducing sugars, 1933, 481.
- Wuyts, H., and Wachsmuth, H.** Use of thiohydrazides as reagents for aldehydes, 1935, 839.
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- Yagoda, H., and Partridge, H. M.** Cerium sulphate as a confirmatory reagent in the detection of aluminium, 1930, 716.
- Detection of cobalt as caesium cobaltinitrite, 1931, 206.
- Yamada, S., and Koshitaka, T.** Determination of the iodine value of camphor oil, 1928, 605.
- Determination of the oil content of crude camphor, 1928, 605.
- Yamada, T.** Fractional extraction of soya-bean oil and the drying properties of the fractions, 1934, 555.
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Yasuda, M. Contributions to the micro-determination of cholesterol, 1931, 620.
 — Determination of the iodine value of oils and lipids, 1932, 182.
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 — Photometric Chemical Analysis. Vol. I, Colorimetry (Review), 1929, 193.
Yoe, J. H., and Kleinmann, H. Photometric Chemical Analysis. Vol. II, Nephelometry (Review), 1929, 564.
Yoshimatsu, S. Colorimetric determination of calcium in blood, 1931, 755.
 — Microchemical determination of magnesium in blood without removing calcium, 1931, 756.
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 — See also Crawford, M. E. F.
 — See also Golding, J.
 — See also Wallace, T.
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 — Analytical chemistry of pentamethylene-tetrazol (cardiazol), 1934, 833.
 — Micro copper-pyridine reaction for saccharin, 1934, 850.
 — Toxicological detection and isolation of barbital, 1931, 758.

SUBJECTS

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- Aachen**: Bacterial activity in the hot springs at Aachen-Burtscheid and ——. A. Brussoff, F. Reinartz and A. Schloemer, **1934**, 55.
- Abegg's Handbuch der Anorganischen Chemie**. Vol. IV, Die Edalgase. (Review), E. Rabinowitsch, **1928**, 678.
- Aberdeen**: County of ——. Annual Report of the County Analyst for 1926. J. F. Tocher, **1927**, 470; for 1927, **1928**, 280; for 1929, **1930**, 387; for 1934, **1935**, 403.
- Abietic Acid**: Colour reaction of colophony and ——. H. Griffon, **1931**, 828.
- Crystalline salts of ——. Determination of ——. G. Dupont, L. Desalbres and A. Bernette, **1926**, 365.
- Abortion agents**; Examination of ——. **1928**, 591.
- drug. **1935**, 472.
- Milk and contagious ——. **1933**, 758.
- Absorption bands of cholesterol**. Spectroscopic observations on cod-liver oil. II. ——. F. W. Schlutz and M. R. Ziegler, **1926**, 586.
- Dissolved oxygen — test. E. A. Cooper and W. H. Read, **1927**, 723.
- spectra and fluorescence of fats. H. P. Kaufmann, **1929**, 309.
- spectra: Application of — in oil research. Distillation of palm oil. L. J. N. Van der Hulst, **1934**, 509.
- spectra; Application of — to the study of vitamins and hormones. (Review), R. A. Morton, **1935**, 724.
- spectra in relation to vitamin A. R. A. Morton, I. M. Heilbron and F. S. Spring, **1930**, 401.
- spectra of oils and oil constituents, with special reference to pro-vitamin D. I. M. Heilbron, D. Kamon and R. A. Morton, **1928**, 168.
- spectra of rat-liver oils; Transformation of carotene into vitamin A, as shown by a study of the ——. N. S. Capper, **1930**, 710.
- spectra of sterols; Colour reaction and — in relation to structure. I. M. Heilbron and F. S. Spring, **1930**, 402.
- spectra of substances derived from vitamin A. J. R. Edisbury, A. E. Gillam, I. M. Heilbron, and R. A. Morton, **1932**, 790.
- spectrophotometry; Instruments used for ——. F. Twyman, **1935**, 4.
- Spectrophotometry; Practice of ——. F. Twyman, **1933**, 126; 2nd Ed., F. Twyman and C. B. Allsopp, **1935**, 127.
- Spectrophotometry; Recent Applications of ——. (Review), A. Hilger, Ltd., **1932**, 482.
- Absorption—continued**.
- spectrum of vitamin A. R. A. Morton and I. M. Heilbron, **1928**, 503, 664.
- spectrum of vitamin A. O. Rosenheim and T. A. Webster, **1929**, 764.
- Absorptive power of charcoals**; Determination of ——. Surun, **1926**, 481.
- Aburazame Liver Oil**: Highly unsaturated acids in ——. Y. Toyama and T. Tsuchiya, **1934**, 831.
- Accrington**: Appointment of S. E. Melling as Public Analyst for Borough of ——. **1929**, 285.
- Accum, Frederick**: Life and Chemical Services of ——. (Review), C. A. Browne, **1926**, 276.
- Accumulators**: Alkaline ——. J. T. Crennell and F. M. Lea, **1929**, 130.
- Acetaldehyde** content of Bartlett pears; Relation of picking time to ——. C. P. Harley, **1930**, 151.
- Effect of — on the germination of fungal spores, **1931**, 532.
- in admixture with formaldehyde; New method for differentiating and determining ——. M. V. Ionescu and H. Slusanschi, **1934**, 57.
- in Bartlett pears and its relation to pear scald and breakdown. C. P. Harley and D. F. Fisher, **1928**, 227.
- in cellulose acetates; Quantitative determination of ——. E. Berl, G. Rueff and W. Wahlig, **1932**, 57.
- in ether; Tests for ——. G. Middleton and F. C. Hymas, **1931**, 238.
- in normal blood, and its quantitative study in blood of normal and diabetic dogs. A. H. Bee and I. L. Chaikoff, **1926**, 640.
- in tropical fruits; Occurrence of ——. A. Steinmann, **1935**, 703.
- in very dilute solutions; Quantitative determination of ——. S. L. Langedijk, **1927**, 358.
- in wines and spirits; Determination of ——. P. Jaulmes and P. Espezel, **1935**, 703.
- Methone as reagent for ——. **1929**, 486.
- Reaction between phenacetin and ——. O. Carletti, **1928**, 292.
- Spot test for ——. **1933**, 373.
- Acetamide** as a solvent. O. F. Stafford, **1934**, 56.
- Acetamides**: Use of benzylic potassium hydroxide for determining acetyl groups in substituted ——. S. Sabetay and J. Sivadjan, **1931**, 475.
- Acetate solutions**; Effect of pH on precipitation of magnesium, zinc, cobalt, nickel, copper and molybdenum from ——. H. R. Fleck and A. M. Ward, **1933**, 388.

- Acetic Acid:** Action of — on the separation of the components of petroleum. P. F. Gordon and J. Merry, **1928**, 55.
as inhibitor of bacterial growth, **1934**, 176.
as pure vinegar, **1932**, 458.
Formic acid in commercial —. L. Daniel, **1927**, 549.
glacial —; Analysis of. H. D. Richmond and E. H. England, **1926**, 283.
glacial —; Determination of the strength of. C. O. Harvey, **1926**, 238.
glacial —; Effect of propionic acid on. **1926**, 284.
glacial —; Industrial analysis of. E. Charles, **1932**, 190.
in cellulose acetate; Determination of —. K. Atsuki and I. Kagawa, **1933**, 564.
in cider, **1935**, 89.
in lead acetate; Volumetric benzidine method for determining —. J. E. S. Han and T. L. Chu, **1931**, 830.
poisoning. R. W. Blair, **1931**, 596.
propionic acid in —; Determination of. F. Baum, **1927**, 607, 608.
Removal of marks from eggs with —. (Legal Notes), **1931**, 32.
Tests for suitability of — for clinical work. J. Hillen, **1935**, 47.
Weak —. **1935**, 468.
- Acetic Anhydride:** Analysis of —. H. D. Richmond and J. A. Eggleston, **1926**, 281.
Determination of the purity of —. C. K. Rosenbaum and J. H. Walton, **1930**, 645.
Gasometric method for determining —. E. L. Whitford, **1926**, 103.
propionic acid in acetic acid and —; Determination of. F. Baum, **1927**, 608.
test for Peru balsam. E. M. Smelt, **1932**, 724.
Use of — in Zeisel's method for determining methoxy groups. M. Nierenstein, **1926**, 456.
- Acetone:** alcohol in presence of —; Determination of. J. M. Macoun, **1928**, 235.
Analysis of mixtures containing ethyl alcohol, isopropyl alcohol and —. C. A. Adams and J. R. Nicholls, **1929**, 2.
and its homologues; Determination of methyl and ethyl alcohols in mixtures containing —. R. W. Hoff and J. M. Macoun, **1933**, 749.
as a control substance for respiration and gas analysis apparatus. T. M. Carpenter, E. L. Fox, and A. F. Sereque, **1929**, 427.
as means of detecting trichlorobenzylidenedesorbitol. G. Reif, **1935**, 181.
as means of extracting barbituric acid derivatives from viscera. P. Chéramy and R. Lobo, **1935**, 50.
bodies in blood and urine; Colorimetric method for determining —. J. A. Behre and S. R. Benedict, **1926**, 639.
British Standard Specification, No. 509. **1933**, 730.
Detection of — by means of *o*-nitrobenzaldehyde. R. Raw, **1932**, 735.
Determination of — by means of hydroxylamine hydrochloride. M. Marasco, **1926**, 472.
- Acetone—continued.**
Determination of — by mercurimetry. • **1927**, 100.
Determination of hydrocarbons in alcohol containing —. R. W. Hoff, **1934**, 687.
extracts of tanning materials; Fluorescence of —. L. Meunier and A. Jamet, **1926**, 481.
Faught test for —. H. J. Schaeffer, **1927**, 169.
hydrocarbon in alcohol containing —; Determination of small proportions of. R. W. Hoff, **1931**, 682.
in chloroform. **1926**, 22.
in ether; Tests for —. G. Middleton and F. C. Mymas, **1931**, 243.
in ethyl alcohol; Detection of —. **1927**, 100.
in fermentation liquors; Quantitative determination of —. G. L. Stahly, O. L. Osburn and C. H. Werkman, **1934**, 319.
in mixtures of other organic solvents determined quantitatively by means of hydroxylamine hydrochloride. M. Krajcinovic, **1932**, 123.
in urine; Determination of isopropyl alcohol in presence of —. C. A. Cook and A. H. Smith, **1930**, 144.
isopropyl alcohol in presence of —; Determination of. H. A. Cassar, **1927**, 725.
method for determining sulphuric acid and buffer salts in vegetable-tanned leather. R. F. Innes, **1935**, 491.
method for measuring the "acidity" of vegetable-tanned leather. W. R. Atkin, **1935**, 491.
method of measuring ultra-violet radiation. **1935**, 410.
method of preparing myoalbumin; its principal properties. M. Piettre, **1926**, 45.
Oxidation of —. **1929**, 7.
Oxidation of dihydroxystearic acid by potassium permanganate in —. J. Bougault and G. Schuster, **1932**, 191.
Penzoldt test for qualitative detection of —. **1929**, 5.
purification of —; Simple and rapid procedure for. E. A. Werner, **1933**, 335.
Rapid, accurate determination of —. Application to biological liquids. R. Gros, **1934**, 362.
Specific gravities and immersion refractometer readings of dilute mixtures of water and —. J. R. Nicholls, **1929**, 9.
Specific gravities and refractions of aqueous mixtures of — and the lower alcohols, **1929**, 3.
Testing of —. E. S. Pemberton, S. T. Card and E. C. Craven, **1935**, 567.
Volumetric determination of —. A. Meyer and S. Mathey, **1930**, 714.
- Acetonitrile** test for thyroid. F. Wokes, **1935**, 485.
- Acetyl** content of carbohydrate acetates; Determination of —. H. L. Parsons, **1933**, 364.
group in cellulose acetates; Potentiometric titration of —. M. Abribat, **1933**, 363.

Acetyl—*continued.*

groups in substituted acetamides; Use of benzylic potassium hydroxide for determining —. S. Sabetay and J. Sivadjan, **1931**, 475.

Acetyl Value: Determination of the — by thermometric titration. T. Somiya, **1930**, 461.

of castor oil. **1933**, 51.

of lipids; New method for determining —, applicable to hydroxylated fatty acids. E. S. West, C. L. Hoagland and G. H. Curtis, **1934**, 429.

of unsaturated fatty oils. S. Ueno and N. Kuzei, **1930**, 646.

Acetylation of starch; New method of —. W. S. Reich and A. F. Damanski, **1933**, 493.

Acetylcholine: Determination of —. L. Lematte, G. Boinot, E. Kahane and M. Kahane, **1931**, 408.

Acetylene: gaseous mixtures containing hydrogen sulphide, carbon dioxide, hydrogen arsenide or phosphide, and —; Determination of constituents of. M. Wilmet, **1928**, 112.

Gravimetric determination of — from calcium carbide. A. A. Wassiljew, **1931**, 617.
in well-water polluted with illuminating gas; Detection of —. **1927**, 654.

Acetylisable constituents in essential oils; Determination of —. **1928**, 214.

Acetylmethylcarbinol: Determination of di-acetyl and —. C. R. Barnicoat, **1935**, 653.

in the blood of the higher animals; Presence of 2:3-butylene-glycol and —. M. Lemoigne and P. Monguillon, **1930**, 642.

in wood vinegar. J. Pritzker, **1933**, 761.

Production of — by *Clostridium acetobutylicum*. P. W. Wilson, W. H. Peterson and E. B. Fred, **1927**, 655.

Acetylotenone: Study of the toxicity of —, using the goldfish as test animal. W. A. Gersdorff, **1933**, 297.

Acetylsalicylic Acid in tropical countries. **1928**, 40.

in urine; Determination of —. A. J. Quick, **1933**, 558.

Achema Jahrbuch. **1934**, 584; **1935**, 130.

Achillea Millefolium: Constituents of the petroleum spirit extract of the blossoms of yarrow. R. L. McMurray, **1934**, 187.

Volatile oil of yarrow. R. L. McMurray, **1935**, 258.

Acid for submarine batteries, **1930**, 755.

in wool; Determination of alkali and —. H. R. Hirst and A. T. King, **1926**, 212.

neutralising power of saliva; Measurement of —. B. C. Soyenkoff and C. F. Hinck, **1935**, 485.

Production of — by wood-rotting fungi. L. P. Curtin, **1927**, 554.

soils; Aluminium and —. J. Line, **1926**, 532.

taste; Perception of —. A. Berlatzky and T. Guevara, **1928**, 447.

Acid-Base balance in food materials; New method of determining —. J. Davidson and J. A. Le Clerc, **1935**, 262.

Acid-Base—*continued.*

balance in the ash of plants; Determination of the —. D. E. Frear, **1930**, 767.

Acid Chlorides: Influence of pyrrole and — on the colour test for reactive organo-metallic compounds. H. Gilman and L. L. Heck, **1931**, 199.

Acid Clay: Benzidine colour reaction of Japanese —. N. Kameyama and S. Oka, **1929**, 562.

Colour reaction of Japanese — upon carotene in palm oil. K. Kobayashi, K. Yamamoto and J. Abe, **1932**, 268.

Colour reaction of Japanese — with carotene in palm oil. K. Kobayashi, K. Yamamoto and J. Abe, **1934**, 639.

Colour reaction of Japanese — with carotene. K. Kobayashi, K. Yamamoto and J. Abe, **1931**, 198.

Genesis of Japanese —. K. Kobayashi and K. Yamamoto, **1929**, 562.

Synthesis of Japanese —. N. Kameyama and S. Oka, **1929**, 65.

Synthetic Japanese —. N. Kameyama and S. Oka, **1929**, 562.

Acid Dichromate as a means of determining alcohol in dilute solution, compared with the specific gravity method. S. G. Liversedge, **1931**, 595.

Acid Lead Arsenate: Composition of commercial — and its relation to arsenical injury. H. S. Swingle, **1930**, 60.

Acid Salts: Definition of —. **1928**, 41.

Acid Values of fats and oils; Isopropyl alcohol as substitute for ethyl alcohol in determining —. H. A. Schuette and M. P. Smith, **1927**, 101.

of fats and oils. New method for determining the barium values of fats and oils. W. L. Davies, **1928**, 172.

Acidimetric determination of formaldehyde and sulphites. M. Malaprade, **1934**, 361.

determination of magnesium, zinc, aluminium and copper in presence of oxyquinoline. F. L. Hahn and E. Hartleb, **1927**, 495.

determination of nickel as the nickeldicyandiamide salt. P. Fluch, **1927**, 48.

indicators in fluorescence analysis; Some examples of —. H. R. Fleck, R. F. G. Holness and A. M. Ward, **1935**, 32.

method for determining glucose by means of Fehling's solution. M. D. Hadjieff, **1928**, 604.

standard; Furoic acid as an —. H. B. and A. M. Kellog, **1934**, 712.

standard; Thiosulphate as an —. J. Bicskei, **1932**, 589.

titration and composition of commercial lactic acid. R. Eder and F. Kutter, **1926**, 533.

Acidimetry: Cadmium sulphate as a basis for —. S. E. Q. Ashley and G. A. Hulett, **1934**, 570.

Acidity in canned fruits. E. F. Kohman and N. H. Sanborn, **1930**, 582.

in wool. S. R. Trotman and G. N. Gee, **1933**, 418.

in writing inks; Electrometric determination of the —. H. A. Bromley and A. de Waele, **1926**, 567.

Acidity—continued.

- in writing inks; Potentiometric determination of —. H. A. Bromley and L. W. Casner, **1930**, 277.
- of fruit products; Use of lead acetate in determining —. B. G. Hartmann and F. Hillig, **1930**, 517.
- of highly coloured fruit-type products; Determination of —. C. H. Badger and J. W. Sale, **1926**, 583.
- of honey and artificial honey; Degree of —. J. Fiehe and W. Kordatzki, **1928**, 290.
- of milk; Investigations on the relations between the freezing point and —. A. J. Parker and L. S. Spackman, **1929**, 217.
- of milk; Relation of the hydrogen ion concentration to the titratable —. P. F. Sharp and T. J. McInerney, **1927**, 715.
- of oils and fats determined by the quinhydrone electrode in non-aqueous solutions. H. Seltz and L. Silverman, **1930**, 210.
- of soil; Colloidal complications in the thiocyanate method of determining the —. F. O. Anderegg and R. P. Lutz, **1926**, 48.
- Revision of words denoting —. **1926**, 193, 195.
- Acido-Proteolytic bacteria in pasteurised milk.** C. Gorini, **1931**, 127.
- Acids: Amino —. See Amino Acids.**
- Battery —. **1933**, 405.
- Bile —. *See* **Bile Acids.**
- Combination of proteins, amino-acids, etc. (in milk) with — and alkalis, and their combining weights. L. J. Harris, **1926**, 39.
- Dibasic — in sumach berry waxes (Japan wax). M. Tsujimoto, **1932**, 266.
- Dissociation constants of various — in presence of boric acid. J. Böeseken and J. Coops, **1926**, 423.
- earth-; Digallic acid as a reagent for —. W. R. Schoeller, **1927**, 702.
- earth-; Precipitation of — by sodium compounds. (Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. VI.) W. R. Schoeller and C. Jahn, **1926**, 613.
- Fatty —. *See* **Fatty Acids.**
- Highly unsaturated — from oiticica oil (*Licania rigida*). W. B. Brown and E. H. Farmer, **1935**, 570.
- hydroxy organic — in presence of ferric and cupric salts; Titration of. C. V. Smythe, **1931**, 613.
- hydroxy-; Quantitative micro-analytical determination of certain — by means of the photo-electric cell. A. S. Williams, R. H. Muller and J. B. Niederl, **1931**, 619.
- Identification of — as anilides by means of thionylaniline. P. Carré and Liebermann, **1932**, 537.
- in dyed wool; Determination of —. S. R. Trotman and G. N. Gee, **1933**, 174.
- in parsley seed oil. T. P. Hilditch and E. E. Jones, **1927**, 429.
- in textiles; Determination of small amounts of —. A. A. New, **1932**, 333.
- in therapeutic oxygen. **1935**, 581.
- Iodimetric titration of —. I. M. Kolthoff, **1926**, 477.

Acids—continued.

- ketonic —; Action of Nessler's reagent on some. G. Schuster, **1935**, 189.
- Non-volatile — of the pear, quince, apple, loganberry, blueberry, cranberry, lemon and pomegranate. E. K. Nelson, **1927**, 418.
- Non-volatile organic — in barley, maize, oats and rye plants. E. K. Nelson and H. H. Mottern, **1931**, 672.
- of Chinese and esparto grass waxes. F. J. E. Collins, **1935**, 269.
- of the oleic series; Some ill-defined —. I, Hypogaecic acid. T. P. Hilditch and N. L. Vidyarthi, **1927**, 429. II, Acids in parsley seed oil. T. P. Hilditch and E. E. Jones, **1927**, 429. III, "Rapic acid" and other acids of rape and mustard seed oils. T. P. Hilditch, T. Riley and N. L. Vidyarthi, **1928**, 109. IV, "Cheiranthic acid" of wall-flower seed oil. T. P. Hilditch and E. E. Jones, **1928**, 109.
- organic —; *See* **Organic Acids.**
- oxidising —; Potentiometric titration of some. M. L. Malaprade, **1926**, 271.
- oxygenated — derived from non-metals or metals of a similar character; Names of. **1926**, 192, 195.
- Use of thionylaniline for identifying — by the formation of anilides. P. Carré and D. Liebermann, **1933**, 491.
- Aconite:** Microchemical test for —. **1934**, 137.
- New reaction of the total alkaloids of —. C. Brugens, **1932**, 468.
- preparations; Bio-assay of —. **1926**, 42.
- Aconitic Acid** and its isomers; Natural occurrence of —. O. A. Beath, **1926**, 525.
- Aconitine:** Methyl red as indicator for —. **1926**, 316.
- New reaction of —. C. Brugens, **1932**, 468.
- poisoning. **1935**, 761.
- Acorn oils;** Some Indian —. S. V. Pintambekar and S. Krishna. **1935**, 107.
- Acorns:** Composition of —. **1928**, 162.
- Acque Minerali d'Italia.** (Review), **1934**, 582.
- Acridine** dyestuffs; Use of — for determining nitrites. W. M. Rubel, **1931**, 325.
- Acridine Orange** as fluorescence indicator. **1933**, 722.
- Acridness** of cruciferous seeds and oil cakes. Toxicity and —. G. Jörgensen, **1927**, 44.
- Acriflavine:** **1932**, 295.
- Analysis of — B.P. and neutral —. G. F. Hall and A. D. Powell, **1935**, 108.
- Determination of — and related medicinal dyes. A. D. Powell and G. F. Hall, **1933**, 705.
- Acrolein** in cider and perry spirits; Accidental presence of —, and its formation at the expense of the glycerol. G. Warcollier, A. Le Moal and J. Tavernier, **1934**, 840.
- in cider "brandies"; Accidental presence of —. G. Warcollier and A. Le Moal, **1932**, 387, 578.
- Methone as reagent for —. **1929**, 486.
- Preparation and determination of —. E. V. Zappi and R. A. Labriola, **1932**, 59.
- reaction; New —. J. Pritzker, **1928**, 396.
- Actinium:** Atomic weight of —. **1929**, 296.

- Actinodaphne Hooker** ~~Weissn.~~ Fat and oil from the seeds of —. An indigenous source of lauric acid. S. V. Puntambekar and S. Krishna, **1933**, 765.
- Actinomyces**: Molds, Yeasts and —. A. T. Henrici (Review), **1930**, 774.
- Adaline**: Microchemistry of —. M. Wagenaar, **1935**, 58.
- Adenine Nucleotide** in milk. H. D. Kay and P. G. Marshall, **1928**, 391.
- Adipic Acid** as an original standard in alkalimetry. F. T. Van Voorst, **1928**, 353.
- Adipoine**: Properties of —, a cyclic sugar. G. G. Moeys and N. Schoorl, **1934**, 770.
- Adipose Tissue**: Relative concentration of esterase and lipase in —. J. S. Hepburn and H. McD. Moore, **1934**, 292.
- Admiralty disinfectant fluid**; Testing of —. T. C. Patterson and R. C. Frederick, **1931**, 93.
- Adrenaline**: Determination of —. L. C. Baker and G. F. Marrian, **1927**, 651.
Estimation of —. **1932**, 696.
in blood; Chemical method for estimating —. J. C. Whitehorn, **1935**, 331.
in suprarenal gland extracts; Colorimetric determination of —. J. H. Barker, C. J. Eastland and N. Evers, **1933**, 232.
in the suprarenal glands; Determination of —. M. Paget and P. Lohéac, **1928**, 545.
Influence of the pH value on a colour reaction of —. H. Berry and B. Gouzon, **1930**, 519.
- Adrenals** of different animals; Ascorbic acid content of —. J. L. Svrbely, **1933**, 632.
- Adsorbing** properties of cellulose compounds. M. J. Duclaux, **1926**, 481.
- Adsorption** indicator for the volumetric determination of halides; Dichloro-fluorescein as —. K. Banbach and T. H. Rider, **1935**, 496.
indicators for argentometry, together with a comparison of their limits of sensitiveness. A. J. Berry and P. J. Durrant, **1930**, 613.
indicators in fluorescence analysis; Some examples of —. H. R. Fleck, R. F. G. Holness and A. M. Ward, **1935**, 32.
indicators; Use of — in titrations of halides of limited or reversible ionisation. A. J. Berry, **1932**, 511.
- Adulterated** food in restaurants. (Legal Notes), **1926**, 630.
- Adulteration**: Declaration of — in Madras, **1933**, 610.
Food and Drugs — Bill. **1928**, 386.
Madras Prevention of — Act, 1918. **1927**, 156.
in butter; Dyes as an indication of —. D. Henville and W. M. Paulley, **1929**, 413.
of Foods and Drugs; Analysis of —. (Review), J. F. Liverseege, **1932**, 595.
of Indian coffee; Detection of —, with special reference to the extract method. A. H. Bune and G. C. Moitra, **1932**, 708
statistics. J. F. Liverseege, **1928**, 86.
- Aegle Marmelos**, **Corr.**: Seed oil of — (bael fruit tree). R. Child, **1935**, 257.
- Aerated** solutions; Effect of boron deficiency on the growth of tobacco plants in un-aerated and —. J. E. McMurtrey, **1929**, 427.
waters: Mineral contamination of —. **1931**, 182.
- Aeschynite** in rare earths. **1935**, 284.
- Agar gel**; Method of analysis for determining silver, chromate, etc., in —. E. B. Hughes, **1935**, 309.
- Agar-Agar**: Bacteria which liquefy —; Distribution of. H. Nicol, **1932**, 189.
Boron compound in —. **1926**, 564.
- Agar-bran** biscuits. **1930**, 129.
- Age**: Aspects of —, Life and Disease. Sir H. Rolleston, **1929**, 130
- Aggregation**: Stages of —; Changes in the State of Matter in their Dependence upon Pressure and Temperature. (Review), G. Tammann, **1926**, 489.
- Aglucones** of *Strophanthus Eminii*. **1933**, 165.
- Agra and Oudh**: See **United Provinces**.
- Agricultural Analysis**; Wiley's "Principles and Practice of —," Vol. II, Fertilisers and Insecticides, 3rd Ed. Edited by C. A. Browne and W. W. Skinner. (Review), **1933**, 57.
Analysts; See **Appointments**, Official.
Chemistry for Senior Students; Course of Practical Work in —. New Ed. (Review), T. B. Wood, **1933**, 252.
Chemists; Official and Tentative Methods of Analysis of the Association of Official —. (Review), **1932**, 342.
Education Association Sub-Committee's Report and recommendations on mechanical analysis of soils, **1926**, 211.
Experiment Station; Connecticut —. Report on Food Products and Drug Products for 1924, **1926**, 87; for 1926, **1928**, 160; for 1927, **1929**, 160; for 1928, **1930**, 129; for 1929, **1931**, 535; for 1931, **1933**, 285.
Industries; Third International Technical and Chemical Congress of —. **1934**, 415.
lime. **1935**, 244.
Produce (Grading and Marking) Act, 1928.
Duties of Officers under —. **1931**, 319.
Produce (Grading and Marking) Act, 1928.
Statutory Rules and Orders No. 458 (Fruits), 1931, and No. 442 (Vegetables), 1931, **1932**, 463.
Produce (Grading and Marking) (Canned Fruits, Peas and Beans) Regulations, 1930, **1931**, 108.
Produce (Grading and Marking) (Cider) Regulations, 1931, **1931**, 317.
Produce (Grading and Marking) (Eggs) Regulations, 1928, **1929**, 172.
Produce (Grading and Marking) (Eggs) Regulations, 1930, **1930**, 635.
Produce (Grading) (Potatoes) Regulations, 1929. No. 1117, **1931**, 43.
Produce (Grading and Marking) Regulations, 1930, **1930**, 45, 328.
Produce (Grading and Marking), Statutory Rules and Orders, 1930, No. 132, **1930**, 698.
products: Determination of catalase in —. A. K. Balls and W. S. Hale, **1932**, 733.
Research Council. Report for period July, 1931, to September 30th, 1933, **1935**, 98.

- Agriculture:** Ministry of —. See **Ministry of Agriculture and Fisheries.**
- Practical Bacteriology for Students of** —. 2nd Ed. A. Cunningham (Review), **1935**, 280.
- Union of South Africa Department of —. Report of Chemistry Division for year ended June 30th, 1933. St. J. C. O. Sinclair, **1935**, 101.
- United States Department of —. See **United States.**
- Agriot Cherries:** Refractometric investigation of juice of —. **1926**, 41.
- Agrostemma Githago:** Distribution of saponin in —. F. G. de Wilde, **1932**, 180.
- Agulhon's Reagent:** Use of — in the analysis of solvents. E. C. Craven, **1933**, 776.
- Ailanthus** as adulterant of mint. **1934**, 819; **1935**, 612.
- leaves; Mint adulterated with —. (Legal Notes), **1934**, 33.
- Air:** Action of — on flowers of sulphur and ground sulphur. J. E. Stephenson and S. W. Bridge, **1929**, 590.
- analysis; Methods of —. J. S. Haldane and J. I. Graham. (Review), **1935**, 278.
- analysis apparatus; Modification of the Haldane general —. R. C. Frederick, **1927**, 340.
- benzene vapour in the —; Determination of. M. Péronnet and R. Truhaut, **1934**, 431.
- carbon disulphide in —; Detection and determination of. E. Selivounoff, **1929**, 488.
- carbon monoxide in —; Detection of small amounts of. W. Ackermann, **1933**, 297.
- carbon monoxide in blood and —; Pyro-tannic acid method for determining. R. R. Sayers and W. P. Yant, **1926**, 99.
- chlorine in —; Colorimetric method for determining free. L. E. Porter, **1926**, 476.
- combustible gases in human expired —; Traces of. T. R. Parsons, **1930**, 585.
- containing hydrogen sulphide; Detection and determination of methyl mercaptan and carbon disulphide in —. J. F. Reith, **1934**, 197.
- currents; Influence of cooling power and of variability of — on sensations of air movements. **1926**, 191.
- currents; Measurement of variations in the velocity and temperatures of —. **1926**, 190.
- ethyl iodide in water, blood and —; Method for determining minute amounts of. I. Starr, junr., and C. J. Gamble, **1927**, 168.
- Fatalities due to vitiated — produced by oxidation of vegetable refuse. A. R. Tankard and D. J. T. Bagnall, **1930**, 673.
- flow of —; Recent devices for measuring. R. A. H. Flugge-de-Smid, **1929**, 126.
- in Paris streets; Composition of —. R. Cambier and F. Marcy, **1928**, 349.
- inflammability of firedamp and —; Limits of. (Safety in Mines Research Board Report No. 15). M. J. Burgess and R. V. Wheeler, **1926**, 302.
- methyl alcohol in the —; Determination of. C. M. Jephcott, **1935**, 588.
- Air—continued.**
- methyl chloride in —; Detection and determination of. M. J. Martinek and W. C. Marti, **1932**, 122.
- methyl chloride in —; Determination of small amounts of. F. A. Patty, H. H. Schrenk and W. P. Yant, **1932**, 668.
- nitric oxide in —; Determination of traces of. E. Kohn-Abrest, **1927**, 248.
- of cotton card rooms; Nature of the dust in —. British Cotton Industry Research Association, **1931**, 210.
- oxidation of titanous sulphate solution. Vanadous sulphate, a new and powerful reducing agent. A. S. Russell, **1926**, 267.
- Oxygen and carbon dioxide limits in respiratory —. A. Gröglh, **1926**, 256.
- ozone in —; Determination of. E. Briner and H. Paillard, **1935**, 274.
- ozone in —; New method for quantitative determination of. M. S. Egorow, **1929**, 189.
- samples; Absence of stratification and rapidity of mixing of carbon dioxide in —. T. M. Carpenter and E. L. Fox, **1927**, 493.
- smoke pollution of city —; Measuring the. J. S. Owens, **1926**, 2.
- Spread of pollution in —. **1932**, 250.
- Stability of titanous sulphate solutions in —. H. Wilkinson and A. G. Tyler, **1927**, 363.
- sulphur dioxide in presence of excess of —; Determination of. E. D. Ries and L. E. Clark, **1926**, 477.
- Sulphur gases in —. **1932**, 249; **1933**, 284; **1934**, 280; **1935**, 409; Hull records, **1935**, 755.
- tester. R. C. Frederick, **1926**, 397.
- turpentine in —; Colorimetric determination of. P. Andrejew and A. Gavrilow, **1930**, 63.
- Air Ministry:** See **Meteorological Office.**
- Akarittom:** New unsaturated acid in the kernel oil of —. M. Tsujimoto and H. Koyanegi, **1933**, 351; **1934**, 287.
- Aktivin:** **1931**, 51.
- Relative effectiveness of — as disinfectant. **1926**, 259.
- Alabaster** in ancient Egypt. **1926**, 446.
- d-Alanine:** Sublimation temperature of —. **1933**, 117.
- Albumin:** Combined determination of globulin and —. G. M. Moir, **1931**, 228.
- Determination of — by mercurimetry. **1927**, 100.
- in ancient Egypt; Sources of —. H. S. Shrewsbury, **1926**, 624.
- in biological fluids; Analysis of — by the quantitative precipitin method. E. Goettsch and F. E. Kendall, **1935**, 422.
- Loosely-bound sulphur in egg —. W. D. Treadwell and W. Eppenberger, **1929**, 114.
- Reaction between — and various metaphosphates. D. Balarew, **1928**, 400.
- Separate determination of globulin and —. G. M. Moir, **1931**, 232.
- Transmission of light by egg —. H. J. Almquist, J. W. Givens and A. Close, **1934**, 759.
- Albuminoid** content of feeding stuffs; Effect of grinding in a power mill on the —. F. R. Dodd and C. R. Loudon, **1935**, 299.

- Albuminoid Ammonia** in sewages and effluents; Method for the combined determination of oxygen absorbed and —. J. W. Haigh Johnson, **1926**, 345.
- Albuminoid Nitrogen** determination in waters. **1927**, 130.
- Albuminous** compounds from the meat of different animals. K. Beck and E. Casper, **1929**, 238.
- Alcohol adulterants**; Detection of —. J. M. Haley, **1927**, 100.
- Butyl —. See **Butyl Alcohol**.
- Calculation of — from the specific gravity. J. F. Liverseege, **1931**, 529.
- containing acetone; Determination of hydrocarbons in —. R. W. Hoff, **1934**, 687.
- containing acetone; Determination of small proportions of hydrocarbon in —. R. W. Hoff, **1931**, 682.
- Effects of — on Man; Review of. K. Kitchin and D. H. Kitchin, **1932**, 280.
- Ethyl —. See **Ethyl Alcohol**.
- in blood; Interferometric determination of —. J. C. Bock, **1932**, 49.
- in blood of motor drivers. K. Hansen, **1933**, 359.
- in cassia oil; Detection of small quantities of —. Schimmel and Co., **1928**, 556.
- in chloroform; Determination of ethyl chloride and —. C. Newcomb, **1926**, 19.
- in chloroform; Tests for —. **1927**, 540.
- in dilute solution; Determination of — by means of acid dichromate, compared with the specific gravity method. S. G. Liverseege, **1931**, 595.
- in distilled spirits; Rapid determination of — and of colour in whisky. J. F. Williams, **1926**, 583.
- in Palestine; Denaturing of alcoholic liquors and —. **1927**, 230.
- in Palestine; Regulations for —. **1926**, 301.
- in presence of acetone; Determination of —. J. M. Macoun, **1928**, 235.
- in tarabakani liver oil; New —. M. Tsujimoto, **1930**, 212.
- in the human subject; Determination of small amounts of —. J. Evans and A. O. Jones, **1929**, 134.
- in urine. **1935**, 102.
- Isoamyl —. See **Isoamyl Alcohol**.
- Isobutyl —. See **Isobutyl Alcohol**.
- Isopropyl —. See **Isopropyl Alcohol**.
- Lead salt and — method for the determination of solid fatty acids in the original sample. W. F. Baughman and G. S. Jamieson, **1930**, 714.
- Methyl —. See **Methyl Alcohol**.
- New higher — produced during the hydrogenation of fish oils. S. Ueno and R. Yamasaki, **1931**, 414.
- Power — production from sugar beet. (Report to Minister of Agriculture), **1926**, 463.
- soluble protein isolated from polished rice. W. F. Hoffman, **1926**, 205.
- Solubility of uranyl zinc sodium acetate in — of different strengths. G. W. B. van der Lingen, **1932**, 376. See also List of Errata.
- Alcohol—continued.**
- Sucrose octa-acetate as a compulsory denaturant for rubbing —. **1935**, 560.
- Alcoholic beverages**; Detection and determination of lauric acid in —. J. Grossfeld and A. Miermeister, **1929**, 108.
- beverages; Detection of methyl alcohol in —. F. R. Georgia and R. Morales, **1926**, 252.
- concentration in urine as a test of intoxication. G. Carter, **1927**, 615.
- extractive in gum benzoin; Determination of —. T. N. Bennett and C. F. Bickford, **1928**, 546.
- Fermentation. 4th Ed. (Review). A. Harden, **1932**, 546.
- fermentation; Action of certain organic substances on —. E. Mameli, **1927**, 99.
- intoxication; A chemical test for —. H. W. Southgate, **1926**, 208.
- liquids; Determination of esters in —. J. Hossack, **1935**, 170.
- products; Determination of methyl alcohol in —. J. B. Wilson, **1935**, 776.
- solution; Electrometric titration of phenols in —. W. D. Treadwell and G. Schwarzenbach, **1928**, 398.
- Alcoholic Potash Reagent** for saponification; A more stable —. D. T. Englis and V. C. Mills, **1929**, 493.
- Alcoholometry**: F. G. H. Tate (Review), **1930**, 663.
- Alcohols**: Action of Nessler's reagent on some ketonic —. G. Schuster, **1935**, 189.
- Anthraquinone- β -carboxylic acid chloride as a reagent for —. T. Reichstein, **1926**, 643.
- Application of chromic oxidation to certain —. L. Semichon and M. Flanzy, **1932**, 664.
- Determination of higher — (fusel oil). B. Bleyer, W. Diemair and E. Frank, **1934**, 59.
- Distinction of isoamyl, isobutyl and *n*-butyl — from one another, and from the lower — by means of ammonium cobalthiocyanate. H. Weber, **1930**, 208.
- Free primary and secondary — in the presence of tertiary — in essential oils determined by acetylation in pyridine. R. Delaby and S. Sabetay, **1935**, 838.
- from wine; Presence of methyl alcohol in —. M. Flanzy, **1934**, 553.
- Higher — and illipene in commercial illipé butter. M. Tsujimoto, **1930**, 212.
- higher fatty — in sperm whale oils; Quantitative determination of. T. P. Hilditch and J. A. Lovern, **1930**, 152.
- Hydroxyl groups in — determined by benzoylation in tetrahydronaphthalene solution at high temperatures. T. M. Meijer, **1934**, 362.
- in aqueous and cottonseed oil solutions; Refractometric determination of esters and —. J. C. Munch, **1926**, 314.
- methyl alcohol in presence of large quantities of homologous —; Micro-determination of. M. Flanzy, **1934**, 193.
- α -Naphthyl isocyanate as a reagent for —. V. T. Bickel and H. E. French, **1926**, 263.

Alcohols—continued.

- Nitro-chromic acid reaction for detecting primary and secondary —, with special reference to saccharides. W. R. Fearon and D. M. Mitchell, **1932**, 372.
- octadecenyl (oleyl and elaidyl) —; Oxidation of. G. Collin and T. P. Hilditch, **1933**, 564.
- Precipitation of polyhydric — by metallic hydroxides in alkaline media. I. General character of the precipitation. P. Fleury and J. Courtois, **1932**, 783.
- Saturated aliphatic — from sperm oil and spermaceti. E. André and T. François, **1926**, 644.
- separation of phenols and — from oil mixtures; New procedure for. H. Schmidt, **1929**, 57.
- Specific gravities and refractions of aqueous mixtures of acetone and the lower —, **1929**, 3.
- Unsaturated aliphatic — of sperm oil. E. André and M. T. François, **1927**, 558.
- Aldehyde** content of organic compounds; Determination of —. Estimation of phenylhydrazine. S. Marks and R. S. Morrell, **1931**, 508. Erratum, **1931**, 620.
- in ether; Determination of —. E. P. Phelps and A. W. Rowe, **1926**, 308.
- oxidase of the potato. F. Bernheim, **1928**, 393.
- oxidation reactions for phenols, particularly the opium alkaloids. C. C. Fulton, **1930**, 141.
- Aldehydes**: Action of — on wheaten bread. L. Karásconyi, **1930**, 135.
- aromatic; Determination of — based on Cannizzaro's and Claisen's reactions. L. Palfray, S. Sabetay and D. Sontag, **1932**, 472.
- aromatic; Quantitative determination of — by titration with a solution of benzidine. P. N. Van Eck, **1928**, 174.
- aromatic; Reaction of —. M. V. Ionescu, **1930**, 344.
- carbonyl in ketones and —; Determination of. G. W. Ellis, **1927**, 428.
- Detection of —. R. Fischer, **1933**, 569.
- 2:4-dinitrophenylhydrazine as a reagent for ketones and —; Use of. O. L. Brady and G. V. Elsmie, **1926**, 77.
- Identification and determination of ketones and —. S. Veibel, **1928**, 53.
- in essential oils; General method for determining —, with particular reference to the determination of citronellal in Java citronella oil and citral in lemon oil. C. T. Bennett and M. S. Salamon, **1927**, 693.
- in glacial acetic acid. **1926**, 285.
- in rancid fats, **1934**, 697; C. H. Lea, **1934**, 702.
- Methone as a reagent for —. D. Vorländer, **1929**, 485. See also List of Errata.
- Microchemical detection of —. II. R. Fischer and A. Moor, **1935**, 124.
- New colour reaction of —. P. Rumpf, **1933**, 633.
- New oxidation reactions of —. J. B. Conant and J. G. Aston, **1929**, 57.
- New reactions of ketones and —. A. Lacourt, **1934**, 496.

Aldehydes—continued.

- other than citronellal. Determination of —. Essential Oil Sub-Committee Report No. 11. **1934**, 105.
- Spot test for aromatic and α - β -unsaturated —. **1935**, 275.
- thiohydrazides as reagents for —; Use of. H. Wuyts and H. Wachsmuth, **1935**, 839.
- Use of — in detecting and differentiating phenols. A. H. Ware, **1929**, 614.
- Aldehydic** sugars; Characterisation of ketonic and — by oxidation with bromine. F. Zanelli, **1932**, 106.
- Aldobionic Acid** from flaxseed mucilage; Composition of —. C. Niemann and K. P. Link, **1934**, 196.
- Aldohexoses** distinguished from ketohexoses by the resorcinol reaction. C. Sampietro and K. Täufel, **1933**, 360.
- Aldose** sugars. See **Sugars, Aldose**.
- Aldoses**: Micro method for detecting and determining laevulose in dextrose, other — or sucrose. F. Fischl, **1933**, 424. Erratum, **1933**, 570.
- Ale**: Imitation —. **1933**, 33.
- Aleurites Montana**: Oil from Malayan —. T. H. Barry, **1932**, 85.
- Tung oil from — and specification tests. L. A. Jordan, **1934**, 194.
- Aleurites Oils**: Gelation of — by antimony halides. T. François, **1939**, 364.
- Halogen values of —. P. Levy, **1933**, 361.
- Alfalfa**: nitrogenous constituents of the juice of the — plant; Some. VI, Asparagine and amino acids in —. H. B. Vickery, **1926**, 100.
- Sale of dried — as tea. (Legal Notes), **1935**, 96.
- Algae**: Arsenic in marine —. **1926**, 548.
- growing in hot water. **1926**, 246.
- Alimentary** pastes; Determination of unsaponifiable matter in wheat flour, — and eggs. R. Hertwig and L. H. Bailey, **1926**, 306.
- Alimenti**: Dizionario Pratico degli —. (Review), E. Santangelo, **1933**, 123.
- Aliphatic** alcohols; Saturated — from sperm oil and spermaceti. E. André and T. François, **1926**, 644.
- alcohols of sperm oil; Unsaturated —. E. André and M. T. François, **1927**, 558.
- amines; α -Naphthyl isocyanate as a reagent for phenols and —. H. E. French and A. F. Wirtel, **1926**, 472.
- amines; Spot test for — with fluorescein chloride. **1935**, 342.
- compounds; Effectiveness of — in attracting flies. W. C. Cook, **1926**, 314.
- compounds; Tests of various — as fumigants. R. C. Roark and R. T. Cotton, **1930**, 407.
- nitrates; Analysis of mixtures of — by means of the refractometer. W. H. Rinckenbach, **1928**, 61.
- nitrates; Determination of — by titration. J. W. H. Oldham, **1934**, 642.
- Series; Chemistry of —. Vol. I of Richter's Organic Chemistry. Translated by E. N. Allott, (Review), **1934**, 653.
- Alizarin S** as adsorption indicator. **1933**, 332.

- Alkali cyanides**; Action of sodium borate on the reaction of — with reducing sugars. Bougault, Z. Hardy and A. Pinguet, **1933**, 410.
- cyanides; Determination of —. **1933**, 331.
- digestion method for the colorimetric determination of vitamin A. A. W. Davies, **1934**, 357.
- etc., Works. Report of the Chief Inspectors for 1932, **1933**, 535; for 1933, **1934**, 624; for 1934, **1935**, 690.
- Examination of cacao butter for — and alkaline earth. J. Prescher and R. Claus, **1926**, 199.
- in hypochlorite solutions; Determination of free —. E. Rupp and F. Lewy, **1928**, 509.
- in sodium aluminate; Argentometric determination of —. N. A. Tananaeff and M. A. Schachowa, **1935**, 427.
- in wool; Determination of acid and —. H. R. Hirst and A. T. King, **1926**, 212.
- ions; Reagent for lithium in presence of other —. T. Gaspar y Arnal, **1933**, 421.
- metals in water; Titration of —. J. Tillmans and E. Neü, **1932**, 121.
- metals; Picrolonic acid as reagent for —. Y. Volmar and M. Leber, **1933**, 368.
- metals; Quantitative separations of the alkaline-earth and —. J. Kunz, **1933**, 176.
- metals; Separation and identification of the — and alkaline earth metals by means of *iso*-amyl alcohol. H. Yagoda, **1930**, 649.
- metals; Separation of caesium from other —. N. A. Tananaeff and E. P. Harmasch, **1932**, 672.
- nitrites; Acidimetric determination of —. B. Stempel, **1933**, 244.
- solutions; Effect of — on bacteria found in unwashed milk bottles. C. S. Mudge and B. M. Lawler, **1928**, 394.
- sugar solutions decomposed by —; Determination of lactic acid in. T. E. Friedemann, **1928**, 164.
- Tests for small quantities of free ammonia or — (hydroxi-ions). E. Schmitz, **1928**, 111.
- Alkali Chloride** converted into oxalate. N. A. Tananaeff and N. A. Lasarkevitch, **1930**, 652.
- Alkali Sulphides**: Solubility of cupric sulphide in — in presence of sulpharsenates. C. Davies and A. D. Monro, **1927**, 659.
- Alkalimetric** titrations; Potassium bi-iodate as a standard substance in iodimetric and —. I. M. Kolthoff and L. H. van Berk, **1927**, 48.
- Alkalimetry**: Adipic acid as an original standard in —. F. T. Van Voorst, **1928**, 353.
- Alkali earth metals in saccharate solutions and their use in —. A. C. Shead, **1928**, 237.
- Alkaline** accumulators. J. T. Crennell and F. M. Lea, **1929**, 130.
- copper solution, (Fehling reagent); Standard —. M. G. Pegurier, **1926**, 91.
- copper solution; Observations upon Benedict's —. (Determination of sugar in blood.) M. R. Everett, **1929**, 430.
- Alkaline—continued.**
- copper solutions; Determination of reducing sugars, particularly of glucose, by — in the presence of hydrocyanic acid. H. Herissey and A. Chalmeta, **1929**, 421.
- liberation or extraction; Rapid determination of sulphites by — and titration. H. R. Jensen, **1928**, 133.
- range of hydrogen ion concentration determinations; Buffer mixture for —. W. R. G. Atkins and C. F. A. Pantin, **1926**, 317.
- solutions; Characterisation of the anthocyanins and anthocyanidins by means of their colour reactions in —. A. Robertson and R. Robinson, **1929**, 354.
- Alkaline Earth Metals** in saccharate solutions and their use in alkalimetry. A. C. Shead, **1928**, 237.
- Interference of — in the determination of lead. J. Majdel, **1931**, 203.
- Qualitative and quantitative micro-analysis. K. Heller and Z. Stary, **1931**, 691.
- Quantitative separations of the alkali and —. J. Kunz, **1933**, 176.
- Separation and identification of the alkali and — by means of *iso*-amyl alcohol. H. Yagoda, **1930**, 649.
- Alkaline Earth Sulphate** test. **1934**, 721.
- Alkaline Earths**: Examination of cacao butter for alkali and —. J. Prescher and R. Claus, **1926**, 199.
- Identification of — in admixture. N. A. Tananaeff, **1935**, 575.
- Sensitive colour reaction for —. **1934**, 776.
- Alkalinity** in commercial lime; Determination of available —. C. M. Jovellanos, **1930**, 220.
- Alkalis**: Combination of proteins, amino-acids, etc. (in milk), with acids and —, and their combining weights. L. J. Harris, **1926**, 39.
- Content of — in hens' eggs. J. Gossfeld and G. Walter, **1934**, 491.
- Determination of — as silicofluorides. W. D. Treadwell and W. König, **1934**, 132.
- in felspar; Determination of —. E. W. Koenig, **1935**, 843.
- in ores, clays, etc.; Determination of —. J. Ciocchina, **1927**, 432.
- in textiles; Determination of small amounts of —. A. A. New, **1932**, 333.
- in therapeutic oxygen. **1935**, 581.
- soluble — in milk of magnesia and magnesium oxide; U.S.P. test for —. H. Wales, **1934**, 763.
- Use of mixed bromides in place of chlorides in determining —. E. Spencer and K. B. Sen, **1929**, 224.
- Alkaloid** bases of Calabar beans; Determination of —. M. Polonovski and J. Cappelaere, **1931**, 818.
- content of belladonna root. J. J. Blackie, **1926**, 202.
- of ergot of rye: Ergobasine. A. Stoll and E. Burckhardt, **1935**, 483.
- of pepper; Volatile —. A. Pictet and R. Pictet, **1927**, 649.
- rye — preparations; Examination and colorimetric determination of. H. W. Van Urk, **1929**, 479.

Alkaloid—continued.

- Solanocapsine, a new — with a cardiac action. J. M. Watt, H. L. Heimann and E. Epstein, **1933**, 173.
 test for tannins. C. M. Fear, **1929**, 316.
- Alkaloid Trichloracetates:** Separation of alkaloids from viscera. M. G. Florence, **1927**, 723.
- Alkaloidal determinations;** Iodeosin indicator in —. D. B. Dott, **1926**, 255.
 hydroferrocyanides and their analytical uses. M. Gadreau, **1927**, 601.
 titrations; Determination of quinine, cinchonine and cinchonidine with the quinhydrone electrode, and the choice of end-points in —. E. B. R. Prideaux and F. T. Winfield, **1930**, 561.
 titrations; Indicators for —. H. Wales, **1926**, 316.
- Alkaloids:** β -anthraquinone-monosulphonic acid as a microchemical reagent for —. L. Rosenthaler, **1929**, 351.
 barbituric —; Micro-crystallographic identification of. G. Denigès, **1931**, 689.
 Bromine as a reagent in determining —. S. G. Walton and R. G. O'Brien, **1931**, 714.
 Cinchona —. See **Cinchona Alkaloids**.
 Determination of — by mercurimetry. **1927**, 100.
 Ephedra —. T. and H. Smith, **1927**, 142.
 Errors in analysis of — caused by presence of fatty acid or soap. H. R. Watkins and S. Palkin, **1927**, 290.
 Foodstuffs containing —. Vol. VI of *Handbuch der Lebensmittel-Chemie*. (Review), **1935**, 345.
 Identification of — by precipitation. C. C. Fulton, **1931**, 121.
 in cinchona bark. Determination of total —. P. A. W. Self and C. E. Corfield, **1931**, 52.
 in cocoa; Determination of total —. D. D. Moir and E. Hinks, **1935**, 439.
 in ethyl alcohol; Detection of —. **1927**, 101.
 in hyoscyamus leaves; Assay of —. Ph. Fischer, **1928**, 445.
 in old viscera; Detection of —. J. Magnin, J. S. Ubeda and B. Golod, **1927**, 357.
 in opium; Determination of sugar, oily substances and total —. J. N. Rakshit, **1926**, 491.
 Lead chloride for clearing organic liquids in toxicological research for —. J. Magnin, **1927**, 356.
 Lead tetrachloride as a reagent for —. Microchemical characterisation of cocaine and strychnine. V. Arreguine and F. Amadeo, **1930**, 519.
 lupine —; Relative toxicity of. J. F. Couch, **1926**, 361.
 microchemical identification of —; System for. J. F. H. Amelink, **1931**, 418.
 Microchemical identification of *Lunasia* —. F. Amelink, **1933**, 117.
 Microchemical tests for —. **1934**, 774.
 Micro-detection of —. G. D. Lander, **1930**, 474.

Alkaloids—continued.

- mydriatic —; Formula for calculating composition of mixtures of. J. C. Munch and G. S. Gittinger, **1929**, 47.
 New — discovered, 1920-1929 inclusive. J. F. Couch, **1931**, 559.
 of aconite; New reaction of the total —. C. Brugens, **1932**, 468.
 of *Ceanothus americanus*. A. H. Clark, **1926**, 355.
 of ergot; Biological and spectroscopic tests on —, with notes on the Maurice Smith colour test. F. Wokes and H. Crocker, **1932**, 45.
 of ergot; Colour test for —. N. Evers, **1927**, 601.
 of ergot of rye; Reaction for the —. H. W. Van Urk, **1929**, 479.
 of han-fang-chi. K. K. Chen and A. L. Chen, **1935**, 483.
 of the tropine group; Changes undergone by — in putrefying organic media. M. Magnette, **1926**, 419.
 Opium —. **1930**, 141.
 opium-; Test for citric acid and a reagent for —. Pesez, **1935**, 709.
 Potassium perrhenate as precipitant for —. **1934**, 137.
 Potentiometric determination of — by means of potassium iodomercurate. L. Maricq, **1930**, 284; **1931**, 120.
 precipitation of — by tannin: Use of Mitchell's ferrous tartrate reagent for. A. E. Jones, **1928**, 429.
 Precipitation of — by tannins, and the use of antipyrine in the detection of tannins. A. H. Ware and V. Smith, **1933**, 703.
 Separation of — from viscera. M. G. Florence, **1927**, 723.
 Trichloracetates of the —. Use of trichloroacetic acid in toxicology. G. Florence, **1927**, 655.
- Alkannin** for the micro-detection of magnesium and aluminium. J. V. Dubský and E. Wagner, **1935**, 641.
- Alkoxy Groups** in organic compounds; Volumetric determination of —. Modification of the Zeisel procedure. E. P. Eaton and E. S. West, **1927**, 725.
- Alkyl** and aryl halogen; Separation of —. Q. Landis and H. J. Wichmann, **1931**, 61.
- Allanblackia Stuhlmannii:** Composition of seed fats of —. T. P. Hilditch and S. A. Saletore, **1932**, 113.
 oil seeds, **1931**, 188.
 seeds and oil from Tanganyika. **1930**, 201.
- Allanite:** Analysis of Japanese —. Y. Minami, **1929**, 682.
- Allantoic Acid:** Determination of — as xanthylurea. R. Fosse and V. Bossuyt, **1927**, 558.
 Enzymic conversion of uric acid into —. R. Fosse, A. Brunel and R. de Graeve, **1929**, 557.
 in fungi; Presence of —. R. Fosse and A. Brunel, **1933**, 628.
 in the green parts of *Phaseolus vulgaris*. R. Fosse, **1927**, 92.

- Allantoin**: Colorimetric method of determining —. H. W. Larson, **1932**, 184.
in presence of urea; Biochemical determination of —. R. Fosse, A. Brunel and P. de Graeve, **1929**, 479; in urine, **1929**, 479.
- Allantoinase** in fungi; Presence of —. (Test for glyoxylic acid.) A. Brunel, **1931**, 264.
- Allen's Commercial Organic Analysis**. 5th Ed. Vol. IV. (Review), **1926**, 320; Vol. V, **1927**, 615; Vol. VI, **1928**, 356; Vol. VII, **1930**, 73; Vol. VIII, **1931**, 68; Vol. IX, **1932**, 544; Vol. X, **1934**, 207.
- Allfood** with radium. (Legal Notes), **1927**, 642.
- All-India Institute of Hygiene and Public Health**: Report for the year 1934. **1935**, 615.
- Allolactose**: A new sugar of human milk. M. Polonovski and A. Lespagnol, **1931**, 539.
- Allophanates** of certain sterols. U. Tange and E. V. McCollum, **1928**, 232.
- Allotropy**: A. Smits. **1927**, 53.
- Alloy steel**; Determination of arsenic in —. **1929**, 528.
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steels; Determination of molybdenum in —. W. Hertz, **1930**, 411.
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- Alloys**: aluminium —; Determination of zinc in. H. Wagner and H. Kolb, **1933**, 53.
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Electrolytic separation of lead as peroxide in non-ferrous —. I, Determination of small amounts of lead in copper and copper-rich —. B. Jones, **1933**, 11.
foreign substances in —; Chemical identification of. M. Niessner, **1932**, 802.
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Sampling and analysis of —. O. Bauer and E. Deiss, **1930**, 65.
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- Alloys of Iron Research Committee**. **1927**, 414.
- Allyl and propenyl compounds**; Aromatic —. I. Safrol and isosafrol. H. I. Waterman and R. Priester, **1928**, 555.
- Allyl Alcohol**: Detection of —. **1935**, 189.
- Allyleocaine** and cocaine in narcotics. H. Emde, **1931**, 606.
- Almond**: Notes on the histology of the —. V. A. Pease, **1931**, 187.
- Almond Oil**: Adulteration of —. **1926**, 294.
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- Almonds**: Boron compounds in Californian —. **1929**, 18.
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- Aloes**: Adulteration of —. E. Léger, **1934**, 555.
Detection and estimation of — in *post-mortem* cases. G. F. Hall and W. M. Keightley, **1933**, 518.
Excretion of —. G. F. Hall and W. M. Keightley, **1934**, 152. Erratum, **1934**, 338.
Study of — and determination of some of its constituents. P. Valaer and G. E. Mallory, **1934**, 421.
- Aloin**: Precipitation of —. **1933**, 520.
- Alum** as adulterant of food. **1931**, 657.
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- Alumina** in borosilicates; Determination of —. O. W. Krasnowsky, **1930**, 154.
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- Aluminium alloys**; Determination of aluminium oxide in —. W. Ehrenberg, **1933**, 112.
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- aluminium oxide in —; Determination of. W. H. Withey and H. E. Millar, **1926**, 425.
- and acid soils. J. Line, **1926**, 532.
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- Assimilation of — by the human system. S. Judd Lewis, **1932**, 324.
- Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.
- Benzoate method of precipitating iron, chromium and —. I. M. Kolthoff, V. A. Stenger and B. Moscovitz, **1934**, 435.
- Benzoate method of separating chromium, iron and — applied in qualitative analysis. L. Lehrman and J. Kramer, **1935**, 197.
- beryllium in —; Determination of. H. V. Churchill, R. W. Bridges and M. F. Lee, **1931**, 65.
- Biochemistry of —. I, Excretion and absorption of — in the pig. K. Mackenzie, **1931**, 54. II, Excretion and absorption of — in the rat. K. Mackenzie, **1931**, 470.
- Cerium sulphate as a confirmatory reagent in the detection of —. H. Yagoda and H. M. Partridge, **1930**, 716.
- chromium in presence of —; Notes on the determination of, with perchloric acid as oxidising agent. J. Haslam and W. Murray, **1934**, 609.
- cobalt aluminate test for —; Improvement of the. C. Otto, **1926**, 478.
- Colorimetric determination of — with aurin tricarboxylic acid. O. B. Winter, W. E. Thrum and O. D. Bird, **1929**, 680; P. S. Roller, **1933**, 780.
- compounds; Absorption of —. D. Tourtelotte and O. S. Rask, **1931**, 608.
- Confirmatory test for —. W. J. Allardyce, **1927**, 613; R. Gemmill, R. Brackett and C. R. McCrosky, **1929**, 366.
- content of animal tissues; Influence of administration of aluminium on — and on growth and reproduction of rats. V. C. Myers and J. W. Mull, **1928**, 547.
- content of foodstuffs cooked in glass and in —. G. D. Beal, R. B. Unangst, H. B. Wigman, and G. J. Cox, **1932**, 392.
- copper in presence of —; Determination of small amounts of. **1932**, 499.
- Daily administration of small quantities of — in relation to the development of cancer. G. Bertrand and P. Serbescu, **1934**, 422.
- Detection and colorimetric determination of —. I. M. Kolthoff, **1928**, 238.
- Determination of —. Formation of lithium aluminate. J. T. Dobbins and J. P. Sanders, **1932**, 197.
- Determination of cadmium and — by means of oxyquinoline. R. Berg, **1927**, 611.
- Determination of small quantities of —. Application to vegetable substances. P. Meunier, **1935**, 119.
- Drop reaction for —. **1931**, 484.

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- fluorine and phosphate in presence of —; Determination of. T. Millner and F. Kunos, **1933**, 422.
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- Gravimetric determination of — by means of potassium cyanate. B. J. F. Dorrington and A. M. Ward, **1930**, 625.
- in animal tissues; Determination of —. V. C. Myers, J. W. Mull and D. B. Morrison, **1928**, 547.
- in certain aluminium protein compounds; Determination of —. C. G. Pope, **1932**, 259.
- in certain non-ferrous materials; Rapid detection of small amounts of —. G. E. F. Lundell and H. B. Knowles, **1926**, 214.
- in chrome calf leathers; Determination of —. H. B. Merrill^o and R. G. Henrich, **1930**, 647.
- in food. G. W. Monier-Williams, **1935**, 822.
- in food; Determination of small amounts of —. L. H. Lampitt and N. D. Sylvester, **1932**, 418.
- in food; Spectrographic determination of —. P. Bilham, **1932**, 426.
- in leather; Identification of —. **1931**, 335.
- in magnesium alloys. **1934**, 16.
- in nickel alloys; Note on determination of —. R. C. Chirnside, **1934**, 278.
- in nitriding steels; Determination of — by the use of 8-hydroxyquinoline. H. A. Bright and R. M. Fowler, **1933**, 498.
- in organic materials; Determination of —. G. J. Cox, E. W. Schwartze, R. H. Mann, and R. B. Unangst, **1932**, 392.
- in pasture-grasses, etc.; Determination of —. F. B. Shorland, **1934**, 565.
- in plant materials; Determination of —. O. B. Winter and O. D. Bird, **1929**, 751.
- in plants (especially edible plants); Amounts of —. G. Bertrand and G. Levy, **1932**, 119.
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- in presence of copper, iron and zinc; Iodimetric determination of —. R. Land and J. Reifer, **1933**, 496.
- in presence of fluoride and orthophosphate; Determination of —. T. Millner and F. Kunos, **1933**, 54.
- in printing inks; Identification of —. L. N. Larsen, **1931**, 64.
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- in the ash of plant materials, fruit juices and similar products. L. Hart, **1932**, 525.
- in the body; Behaviour of —. **1935**, 823.
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- Micro-detection of — with alkannin and naphthazarin. J. V. Dubský and E. Wagner, **1935**, 641.
- Micro-determination of —. A. Pichler, **1930**, 298.
- Modified confirmatory test for —. E. H. Pañganiban and F. A. Soliven, **1923**, 616.
- New confirmatory test for —. H. W. Estill and R. L. Nugent, **1926**, 161.
- Oxyquinoline as reagent for magnesium, zinc and —. F. L. Hahn and K. Vieweg, **1927**, 431.
- phosphorus in —; Determination of. W. D. Treadwell and J. Hartnagel, **1932**, 798.
- Physiological action of —. J. H. Burn, **1932**, 428.
- potentiometric titration of —; Antimony as indicator electrode in. E. W. Kanning and F. H. Kratil, **1934**, 131.
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- Precipitation of —. **1933**, 637.
- Precipitation of — by means of hexamethylenetetramine. L. Lehrmann, E. A. Kabat and H. Weisberg, **1933**, 715.
- Precipitation of — by means of *o*-hydroxyquinoline in presence of iron, nickel, cobalt, copper, chromium and molybdenum. T. Heczko, **1935**, 120.
- Quantitative separation of — from iron. J. Haslam, **1933**, 270.
- radiator heads; Internal corrosion of —. **1933**, 159.
- Rapid micro-analysis of pure —. I. Iron, copper and manganese. F. Pavelka and H. Month, **1933**, 785.
- Separation and determination of chromium, iron and —. K. K. Järvinen, **1928**, 616.
- Separation of — as phosphate in presence of calcium phosphate, with special reference to the action of milk on —. A. G. C. Gwyer and N. D. Pullen, **1932**, 704.
- Separation of — by 8-hydroxyquinoline. G. E. F. Lundell and H. B. Knowles, **1929**, 770.
- Separation of — from bivalent metals by means of ammonium benzoate. I. M. Kolthoff, V. A. Stenger and B. Moskovitz, **1934**, 572.
- Separation of — from zinc. J. N. Frers, **1934**, 130.
- Separation of beryllium from —. A. Travers and Schnoutka, **1931**, 273.
- Separation of beryllium from — by guanidine carbonate. A. Jilek and J. Kota, **1932**, 406.
- Separation of beryllium from — by hydroxyquinoline. I. M. Kolthoff and E. B. Sandell, **1928**, 508; V. M. Zwenigorodskaja and T. N. Smirnowa, **1934**, 645.
- Separation of beryllium from — by *o*-hydroxyquinoline. M. Niessner, **1929**, 434.
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- silicon in —; Determination of. L. H. Callendar, **1932**, 500.
- Use of 8-hydroxyquinoline in the determination of —. H. B. Knowles, **1935**, 777.
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- zinc in —; Determination of. H. Wagner and H. Kolb, **1933**, 53.
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- Aluminium Chloride**: free hydrochloric acid in presence of ferric chloride and —; Determination of. K. Küchler, **1930**, 597.
- Aluminium Oxide** in aluminium; Determination of —. W. H. Withey and H. E. Millar, **1926**, 425.
- in aluminium alloys; Determination of —. W. Ehrenberg, **1933**, 112.
- Alumina**: Reaction of — with hydroxides of beryllium, rare earths, zirconium and thorium. A. R. Middleton, **1926**, 537.
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- Amaranth**: Use of buffers in determining — by means of titanium trichloride. O. L. Evenson and D. T. McGutcheon, **1928**, 602.
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- Ultraviolet-detector as an aid in distinguishing real — from its imitations. G. Kostka, **1929**, 256.
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- American buffalo milk**. F. T. Shutt, **1932**, 454.
- cheese. **1929**, 161.
- Chemistry; Annual Survey of —. Vol. III, C. J. West, **1929**, 130.
- cherry kernel oil. G. S. Jamieson and S. I. Gertler, **1930**, 761.
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- reindeer fat. W. F. Baughman, G. S. Jamieson and R. S. McKinney, **1929**, 605.
- safflower oil. G. S. Jamieson and S. I. Gertler, **1929**, 347.
- Soap-Maker's Guide. (Review), I. V. S. Stanislaus and P. B. Meerbott, **1929**, 378.
- wormseed oil. A. Högstad, Junr., **1926**, 356.

- Amide Nitrogen** in tobacco; Determination of ammonia and — by use of permutit. H. B. Vickery and G. W. Pucher, **1929**, 550. of blood; Quantitative determination of —. S. Bliss, **1929**, 180.
- Amides**: Biuret reaction of di-acid —. M. M. Rising, J. S. Hicks and G. A. Moerke, **1931**, 130. Iodine as a differential reagent between ammonium salts, amines and —. J. A. Sanchez, **1927**, 363. Methylols derived from — determined^c by means of Nessler's reagent. J. Bougault and J. Laboucq, **1933**, 300.
- Amidoazobenzene**: Reactions of — with nitrous acid. **1927**, 492.
- Amines**: aliphatic; α -Naphthyl isocyanate as a reagent for phenols and —. H. E. French and A. F. Wirtel, **1926**, 472. aliphatic; Test for — with fluorescin chloride. **1935**, 342. aromatic —; New colour reaction of. I. de Paolini, **1931**, 129. aromatic; Spot test for — with fluorescin chloride. **1935**, 342. aromatic; Spot test for primary — with glutacnic aldehyde. **1935**, 343. Chloranil as a differential reagent for —. J. Sivadjan, **1935**, 425. Detection of primary — by means of resorufin. H. Eicher, **1935**, 190. Identification of — as 2, 4-dinitrobenzoates. C. A. Buehler and J. D. Calfee, **1934**, 769. in brandy; amount and determination of —. K. R. Dietrich, **1934**, 630. in foodstuffs; Determination of —. F. Okoloff, **1932**, 321. in tannery lime liquors; Determination of —. E. K. Moore, J. H. Highberger, R. Koppenhoefer and F. O'Flaherty, **1931**, 614. in the distillate from Kjeldahl-Gunning nitrogen determinations; On the presence of —. R. A. Cortner and W. F. Hoffman, **1926**, 648. Interaction of phenols and — with arylsulphonyl chlorides. F. Bell, **1931**, 802. Iodine as a differential reagent between ammonium salts, amides and —. J. A. Sanchez, **1927**, 363. Microchemical tests for volatile —. **1934**, 138. Quinone as reagent for —. M. Foucry, **1934**, 713. Reaction for distinguishing primary cyclic — and its application to medicines. J. A. Sanchez, **1932**, 391.
- Amino Acid nitrogen** in animal tissues; Determination of —. J. M. Luck, **1928**, 345.
- Amino Acids**: Formaldehyde titration of certain —. S. L. Jodidi, **1926**, 263. General reaction of —. H. D. Dakin and R. West, **1928**, 452, 554. Identification of — by means of 3:5-dinitrobenzoyl chloride. B. C. Saunders, **1934**, 568. in alfalfa; Asparagine and —. H. B. Vickery, **1926**, 100. in foodstuffs; Determination of —. J. Tillmans and J. Kjesgen, **1927**, 417.
- Amino Acids—continued**. in honey; Determination of —. R. E. Lothrop and S. I. Gertler, **1933**, 350. in milk; Combination of proteins and —, with acid and alkalis, and their combining weights. L. J. Harris, **1926**, 39. Metabolism of —. J. M. Luck, **1928**, 345. of wool; Basic —. A. M. Stewart and C. Rimington, **1932**, 257.^c Oxidation of — by means of silver oxide. R. M. Herbst and H. T. Clarke, **1934**, 425. Sublimation temperature of twelve —. J. W. Brown, **1933**, 117.
- Amino-Alcohols**: local anaesthetics derived from —; Determination of certain. F. and J. Girault, **1935**, 185.
- p-Amino-Benzoic Acid Ethyl Ester**: Anaesthetic. M. Wagenaar, **1933**, 352.
- Amino-Naphthol-Sulphonic Acids**: Use of isomeric — for colorimetric determination of phosphate. Béla Vásárhelyi, **1930**, 350.
- Amino Nitrogen**: Apparatus for determining small quantities of —. J. C. Harral, **1931**, 527. Volumetric determination of —. K. Lindström-Lang, **1928**, 174.
- p-Aminophenol**: Chemical reactions of dyeing with —. H. E. Cox, **1934**, 3.
- Aminophenols**: Chemical examination of dyed leathers for the presence of —. F. E. Humphreys and H. Phillips, **1932**, 290.
- Aminosauureanhydride**: Die Rolle der Zyklischen — in der Neueren Strukturchemie der Proteine (Review). E. Klarman, **1930**, 71.
- Ammonia**: albuminoid-; Method for the combined determination of oxygen absorbed and — in sewages and effluents. J. W. Haigh Johnson, **1926**, 345. Analytical applications of the reaction of — on resorcinol in the presence of cations. L. Bey, **1931**, 62. and mercurous salts; Interaction of —. F. Feigl and A. Sucharipa, **1926**, 51. Autotrophic bacterium which oxidises — to nitrate. C. B. Lipman and L. Greenberg, **1932**, 263. Behaviour of indicators in the titration of —. R. T. Thomson, **1928**, 315. colorimetric determination of traces of —. K. G. Makris, **1931**, 617. content of cold-storage eggs. H. C. Lythzoe, **1927**, 596. Conversion of saccharin into —. **1927**, 381. Determination of — with calcium hypochlorite as volumetric oxidising agent. I. M. Kolthoff and V. A. Stenger, **1935**, 341. in blood; Determination of —. D. D. Van Slyke and A. Hiller, **1933**, 768. in flesh; Determination of saline — and detection of incipient putrefaction. B. Glassmann and F. Röchwarger, **1930**, 281. in foodstuffs; Determination of —. F. Okoloff, **1932**, 321. in grape must; Influence of sugar on the determination of —. J. Vengre and E. Bouffard, **1926**, 352, 353. in sea-water; Direct Nesslerisation of —. H. Wattenberg, **1931**, 208.

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- in tobacco; Determination of amide nitrogen and — by the use of permutit. H. B. Vickery and G. W. Pucher, **1929**, 550.
- in water; Photometric micro-determination of —. **1933**, 718.
- liquor; Determination of phenol in — and other solutions. R. D. Williams, **1927**, 360.
- Micro method for determining —. K. Linderström-Lang and H. Høfter, **1934**, 206.
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- Precipitation of alumina by —. L. Murawleff and O. Krassnowsky, **1927**, 105.
- process for determining saccharin. A. F. Lerrigo and A. L. Williams, **1927**, 377.
- Sensitive test for —. K. G. Makris, **1930**, 715.
- Separation of nicotine and —; (Researches on the fermentation of dried tobacco. I.) A. Fodor and A. Reifenberg, **1926**, 98.
- Sliding-gauge colorimeter, and determination of small amounts of nitrites, lead, iron and —. A. L. Bernoulli, **1926**, 649.
- Solubility of antimonious and stannic sulphides in —. P. A. Epik, **1932**, 590.
- Tests for small quantities of free — or alkali (hydroxylions). E. Schmiz, **1928**, 111.
- Ammoniacal** canned fish. **1935**, 40.
- nitrogen; Bromimetric determination of —. I. B. Levy, **1931**, 478; II. H. Tschepelewetzky and S. Posdniakowa, **1931**, 479.
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- Ammoniated Quinine** tablets, **1930**, 505; **1931**, 655; **1933**, 688; (Legal Notes), **1935**, 37.
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- Ammonium**; Drop reaction for —. **1931**, 484.
- Ammonium Benzoate** as means of separating iron, aluminium and chromium from bivalent metals. I. M. Kolthoff, V. A. Stenger and B. Moskovitz, **1934**, 572.
- Ammonium Bifluoride**: Relative effectiveness of — as disinfectant. **1926**, 259.
- Ammonium Carbonate**: Solubility of antimonious and stannic sulphides in —. P. A. Epik, **1932**, 590.
- Ammonium Chloride**: Estimation of liquid contact potentials with potassium chloride and —. G. M. Kline, M. R. Meacham and S. F. Acree, **1932**, 340.
- Fractionation of casein by means of —. E. Cherbuliez and M. L. Schneider, **1932**, 464.
- Use of saturated — in the elimination of contact potentials. C. N. Murray and S. F. Acree, **1932**, 340.

- Ammonium Cobalthiocyanate** as means of distinguishing isoamyl, isobutyl and *n*-butyl alcohols from one another, from the lower alcohols and from amyl and butyl acetates. H. Weber, **1930**, 208.
- Ammonium Fluoride**: Decomposition of refractory silicates by fused —, and its application to the determination of silica in glass sands. A. C. Shead and G. F. Smith, **1931**, 274.
- Ammonium Glycyrrhizates**: (Commercial glyzines). A. Bonis, **1930**, 140.
- Ammonium Ichthosulphonate**: sulphur content of —; Determination of. N. L. Allport, **1932**, 255.
- Ammonium Ion**: Reagent for —. T. G. Y. Arnal, **1929**, 369.
- Ammonium Molybdate** as a microchemical reagent. C. van Zijp, **1935**, 431.
- method for detection and determination of sucrose. N. W. Matthews, **1929**, 43.
- Titration of —. G. Hammarsten, **1928**, 179.
- Ammonium Oxalate** in systematic qualitative analysis; Application of —. M. O. Charmandarjan, **1930**, 153.
- Ammonium Phosphate** as means of separating cobalt from nickel. H. Wunshendorff and P. Valier, **1934**, 502.
- Ammonium Salts**: Absorption of carbon monoxide by cuprous —. W. Gump and I. Ernst, **1930**, 464.
- added to vinegar. C. A. Mitchell, **1931**, 178.
- Detection of potassium in presence of —. R. D. Reed and J. R. Withrow, **1929**, 65.
- Determination of — as an indication of the quality of milk. A. I. Burstein and F. S. Frum, **1935**, 699.
- Iodine as a differential reagent between —, amines and amides. J. A. Sanchez, **1927**, 363.
- Spot tests for —. F. Feigl, **1933**, 641.
- Ammonium Sulphate**: Fractionation of serum proteins by means of —. A. Muschel, **1928**, 548.
- Titration of — by the stearate method. H. Atkinson, **1926**, 140.
- Ammonium Sulphide** group of metals; Analysis of —. L. Lehrman, H. Weisberg and E. A. Kabat, **1934**, 844.
- group of metals; Precipitation of —. A. Krüger, **1933**, 637.
- group; Precipitation of the —. J. Röll, **1923**, 178.
- Qualitative analysis without —. A. S. Komarowsky and W. J. Goremykin, **1932**, 333.
- Amniotic Fluid**: Composition of —. A. R. Tankard, D. J. T. Bagnall and F. Morris, **1934**, 806.
- Amyl Acetate**: Distinction of isoamyl, isobutyl and *n*-butyl alcohols from butyl and — by means of ammonium cobalthiocyanate. H. Weber, **1930**, 208.
- Amyl Alcohol** for milk testing. J. Golding, **1933**, 276, 531; J. Houston, **1933**, 151.
- for use in the Gerber test; Specification for —. A. More, **1933**, 277.

Amyl Alcohol—*continued*.

New test for suitability of — in the Gerber process. D. O'Sullivan, **1935**, 301.

Use of — in the sodium diethyl dithiocarbamate method of determining copper. R. W. Thatcher, **1934**, 130.

Amyl Ether: Influence of — on the indicated fat percentage in the Gerber process. D. O'Sullivan, **1935**, 301.

Amylase in milk; Test for —. P. Weinstein, **1930**, 582.

of honey; Stability of —. **1930**, 671.
solution of *Aspergillus oryzae*; Preservation of the —. K. Oshima, **1928**, 612.

test for the degree of heating of milk. **1929**, 238.

test; Is the — alone sufficient to indicate permanent pasteurisation? M. N. Bengen and E. Bohm, **1935**, 325.

Amylases: amylolytic activity of —; Method for the direct and quantitative study of. M. L. Caldwell and F. C. Hildebrand, **1935**, 834.

Amylolytic activity of amylases; Method for the direct and quantitative study of —. M. L. Caldwell and F. C. Hildebrand, **1935**, 834.

Anaemia produced on diets of whole milk and iron proved to be due to deficiency of copper. J. Waddell, H. Steenbock, C. A. Elvehjem, and E. B. Hart, **1929**, 556.

Anaerobic bacteria causing black-rot of eggs. R. M. Bohart, **1930**, 206.

spore-bearing bacteria in milk. E. A. Bliss, **1926**, 589.

Anaesthesine: *p*-Amino-benzoic acid ethyl ester. M. Wagenaar, **1933**, 352.

as adulterant of cocaine. **1935**, 185.

Anaesthetic chloroform; New method for detecting decomposition products in —. N. L. Allport, **1931**, 706.

Colour reactions of — which distinguish it from cocaine and similar substances. M. Wagenaar, **1932**, 579.

chloroform; Tests on —. **1934**, 348.
ether. **1932**, 718.

ether; Preservation of —. C. L. Hewer, **1929**, 352.

ether; Purification and preservation of —. S. Palkin and H. R. Watkins, **1929**, 756.

ether; Ultra-violet rays as a test for the stability of —. S. G. Liversedge, **1934**, 815.

ethers; Reactions of — with potassium hydroxide and with mercury, and the test for foreign odours. E. Mallinckrodt, Junr., **1927**, 718.

Anaesthetics: Colour reaction for some —, and its application to determination of procaine. E. R. Riegel and J. F. Williams, **1927**, 41.

local — derived from amino-alcohols; Determination of certain. F. and J. Girault, **1935**, 185.

local —; Relationship between hydrogen ion concentration and chemical constitution in certain. E. B. Vliet and R. Adams, **1926**, 527.

Merz reactions for certain new —. H. Szancer, **1932**, 724.

Anaesthetics—*continued*.

Use of the antimony and antimony trioxide electrode, for determining the dissociation constants of certain local — and related compounds. F. Fenwick and E. Gilman, **1930**, 52.

Analar Standards for Laboratory Chemicals. British Drug Houses (Review), **1935**, 63.

Analyse: Die Chemische —. L. F. Winkler, **1933**, 126.

Analysis by deputy under Sale of Food and Drugs Act, 1926. **1930**, 39, 40.

by Elutriation. (Review), H. Gessner, **1931**, 352.

Capillary —. Identification of small amounts of formaldehyde with dimethyl-hydroresorcinol. L. Kofler and H. Hilbck, **1930**, 528.

capillary—; Use of the analytic quartz lamp in —. **1927**, 709.

Chemical —. See **Chemical Analysis**.

Conductrometric —. H. T. S. Britton. (Review), **1934**, 854. See also list of Errata.
electrolytic —; New apparatus for. H. J. S. Sand, **1929**, 275.

Errors of judgment in chemical —. J. F. Tocher, **1926**, 338.

gravimetric —; Use of the filter stick in. E. J. King, **1933**, 325.

Inorganic —. See **Inorganic Analysis**.

Metallurgical —; Select Methods of. (Review), W. A. Naish and J. E. Clennell, **1930**, 158.

metallurgical —; Study and improvement of methods of. **1932**, 463.

Microchemical —. See **Microchemical Analysis**.

micro-gravimetric —; Filter for. P. L. Kirk and R. Craig, **1932**, 127.

Official and Tentative Methods of — of the Association of Official Agricultural Chemists. (Review), **1932**, 342.

Organic —. See **Organic Analysis**.

Physico-chemical — by means of the boiling of saturated solutions. E. Cornec and P. Klug, **1927**, 660.

Preparation of butter samples for —. L. C. Mitchell and S. Alfend, **1926**, 40.

Qualitative —. See **Qualitative Analysis**.

Quantitative —. See **Quantitative Analysis**.

Spectral —. Collected references. F. Pavelka and H. Molterer, **1935**, 274.

Spectrographic chemical —. H. Ramage, **1929**, 373.

Spot —. (Review), F. Feigl, **1932**, 741.

Standard methods of —. **1931**, 225.

Standard Methods of —. Bibliographies.

I, Leather and Tanning Materials, **1927**, 83.

II, Beer and Brewing Materials, **1927**, 235.

III, Petroleum and Petroleum Products, **1927**, 347.

Volumetric —. See **Volumetric Analysis**.

Analyst, The; A forerunner of. S. F. Burford, **1926**, 141.

Analyst's certificate; Alleged insufficiency of —. (Legal Notes: Arsenic in apples), **1926**, 408.

Analytical balance without rider. A. Wirth, **1926**, 482.

Analytical—continued.

Chemistry. Vol. I, Qualitative Analysis. 7th English Ed. (Review), F. P. Treadwell and W. T. Hall, **1931**, 349; 8th English Ed., **1932**, 678; Vol. II, Quantitative. W. T. Hall, **1929**, 258.

Chemistry. (Review), J. C. Ware, 413.

Chemistry; Elementary —. Qualitative and Quantitative. 11th Ed. (Review), F. Clowes and J. B. Coleman, **1931**, 137; 12th Ed., revised by C. G. Lyons and F. N. Appleyard, **1935**, 277.

Chemistry; Recent Advances in —. Edited by C. A. Mitchell. Vol. I, Organic Chemistry. (Review), **1931**, 279. Vol. II, Inorganic Chemistry. (Review), **1931**, 839.

Factors and their Logarithms. (Review), E. R. Caley, **1933**, 312.

Investigation Scheme. **1927**, 186.

Methods; Standing Committee on Uniformity of —. See **Analytical Methods Committee**.

Processes: a Physico Chemical Interpretation. (Review), T. B. Smith, **1930**, 156.

Tables. (Review), A. O. Bentley, **1928**, 309.

Analytical Methods Committee: Appointment of Sub-Committee on Methods of Soap Analysis, and Sub-Committee on the Determination of the Freezing Point of Milk. **1935**, 730.

Essential Oil Sub-Committee Reports:

No. 1. Estimation of Cineole in Essential Oils. (I) Cajuput and Eucalyptus Oils, **1927**, 276.

No. 2. Physical Constants (1), **1927**, 530.

No. 3. Physical Constants (2), **1929**, 335.

No. 4. Interim Report on the Determination of Acetylisable Constituents in Essential Oils. **1928**, 214.

No. 5. Determination of Phenols in Essential Oils, **1928**, 215.

No. 6. Determination of Citral in Lemon Oil, **1930**, 109.

No. 7. Determination of Solubilities, **1930**, 386.

No. 8. Determination of Cineole in Essential Oils. (2) Camphor Oil, (3), Other Oils, **1931**, 738.

No. 9. Determination of Carvone and Menthone, **1932**, 378.

No. 10. Determination of Citronellal, **1932**, 773.

No. 11. Determination of Aldehydes other than Citronellal, **1934**, 105.

Milk Products Sub-Committee Reports:

No. 1. Determination of Total Solids of Condensed Milk. Determination of Fat in Condensed Milk, **1927**, 402.

No. 2. Determination of Sucrose in Sweetened Condensed Milk, **1930**, 111.

No. 3. Analysis of Sweetened Condensed Milk in which the Sucrose has altered during Storage, **1932**, 630. Erratum, **1933**, 30.

Sub-Committee on Determination of Arsenic, Lead and other Poisonous Metals in Food Colour Materials. Reports:

No. 1. Determination of Arsenic, **1930**, 102.

No. 2. Determination of Lead, **1935**, 541.

Analytical Methods Committee—continued.

Sub-Committee on the Determination of Unsaponifiable Matters in Oils and Fats and of Unsaponified Fat in Soaps. Reports: No. 1. **1933**, 203.

No. 2. **1935**, 537.

Analytischen Chemie; Physikalische Methoden der —. Part I. E. Scheibe, H. Mark and R. Ehrenberg, **1933**, 314.

Anglesey: Appointment of H. Lowe as Agricultural Analyst for County of —. **1932**, 163.

Angola: Some oleaginous forest seeds of —. C. de M. Geraldès, A. d'Almeida and C. Duarte, **1931**, 188.

Anilides: Identification of acids as — by means of thionylaniline. P. Carré and D. Liebermann, **1932**, 537.

Thionylaniline as means of identifying acids by the formation of —. P. Carré and D. Liebermann, **1933**, 491.

Aniline dyes in paints. **1929**, 748.

Lehmann's method for determining. A. V. Pamfilov and V. E. Kisseleva, **1929**, 60.

poisoning. **1931**, 744.

poisoning; A case of —. J. Inkster, **1926**, 641.

poisoning in industry. **1929**, 745.

Spot tests for —. **1933**, 371.

Aniline Bitartrate as means of separating potassium and sodium chlorides. J. Kunz, **1933**, 302.

Aniline Hydrochloride as a means for the colorimetric determination of chlorates. R. A. Jones, **1931**, 807.

Anilism in factories. **1934**, 626.

Animal amylases; Influence of vitamin C (ascorbic acid) on —. A. Purr, **1934**, 710.

body; Storage of manganese and copper in the — and its influence on haemoglobin building. R. W. Titus and J. S. Hughes, **1929**, 609.

cells; Research on vitamin A in —. P. Joyet-Lavergne, **1935**, 195.

charcoal; Method of differentiating vegetable and —. S. Ahlbom, **1927**, 657.

fats; Highly unsaturated fatty acids in some —. J. B. Brown and C. C. Sheldon, **1934**, 831.

fibres; Methods for studying the scale structure of —. J. I. Hardy, **1932**, 200.

fibres; Protection of — against clothes moths and dermestid beetles. C. O. Clarke, **1929**, 126.

foods; Biological value of the nitrogen of mixtures of patent white flour and —. H. H. Mitchell and G. G. Carman, **1926**, 358.

foods; Copper content of plant and animal —. C. W. Lindow, C. A. Elvehjem and W. H. Peterson, **1929**, 420.

foods; Iron content of plant and —. W. H. Peterson and C. A. Elvehjem, **1928**, 444.

material; Micro-determination of carbohydrates in —. Z. Dische, **1932**, 410.

materials; Determination of manganese in —. J. T. Skinner and W. H. Peterson, **1930**, 640.

Animal—continued.

- materials; Manganese content of plant and —. C. W. Lindow and W. H. Peterson, **1928**, 43.
- nitrogenous manures; Detection and determination of nitrogen-bearing chemicals added to vegetable or —. H. C. Moore and R. White, **1927**, 298.
- nutrition; Cobalt in —. F. J. Stare and C. A. Elvehjem, **1933**, 167.
- nutrition; Some biochemical and physiological aspects of copper in —. I. J. Cunningham, **1931**, 820.
- oils; Marine —. Oil of *Centrophorus granulosus*. E. André and H. Canal, **1929**, 606.
- oils; Thiocyanogen values of marine —. Y. Toyama and T. Tsuchiya, **1930**, 292.
- oils; Ultra-violet absorption of certain —. A. Chevallier, J. Guillot, and P. Chabre, **1932**, 789.
- organism; Electrolytic method for investigating the circulation of gold in the —. S. Lomholt, **1926**, 97.
- organs; Detection of yeast by the yeast gum reaction in presence of the products of hydrolysis of animal proteins and of —. H. Kraut, **1928**, 228.
- organs or excreta; Determination of bismuth in —. **1926**, 159.
- poisoning cases. **1926**, 410.
- poisoning cases in Madras. **1931**, 665.
- poisoning in Cyprus. **1932**, 781.
- proteins; Detection of yeast by the yeast gum reaction in presence of the products of hydrolysis of —. H. Kraut, **1928**, 228.
- secretions and excretions; Extraction of aloes from —. **1933**, 519.
- sterols; Application of the Liebermann and Burchard reaction to the differentiation of vegetable and —. R. Meesemaeker and H. Griffon, **1930**, 588.
- tissues; Determination of aluminium in —. V. C. Myers, J. W. Mull and D. B. Morrison, **1928**, 547.
- tissues; Determination of amino acid nitrogen in —. J. M. Luck, **1928**, 345.
- tissues; Determination of inositol in —. L. Young, **1934**, 837.
- tissues; Determination of small amounts of lead in —. R. Nakaseko and I. Nakano, **1926**, 46.
- tissues; Distribution of vitamin C in — and its determination. O. A. Bessey and C. G. King, **1934**, 122.
- tissues; Examination of — for arsenic. **1932**, 171.
- tissues; Iron content of —. C. A. Elvehjem and W. H. Peterson, **1927**, 650.
- tissues; Nitrates in vegetable and —. E. Kohn-Abrest and S. Kawakibi, **1926**, 585.
- Animals**: Acetylmethylcarbinol and 2:3-butylene-glycol in the blood of the higher —. M. Lemoigne and P. Monguillon, **1930**, 642.
- arsenic in —; Occurrence of. **1926**, 549.
- Ascorbic acid content of the adrenals and livers of different —. J. L. Svirbely, **1933**, 632.
- Distribution of upicase in —. **1933**, 627.

Animals—continued.

- titanium in —; Presence and distribution of. G. Bertrand and Veronca-Spirt, **1930**, 585.
- Toxic action of sassafras oil and safrol on —. G. A. Mallinson, **1926**, 46.
- Variations in the zinc content of — with age. Influence of milk diet. G. Bertrand and Y. Beauzumont, **1936**, 455.
- p-Anisaldehyde**: Methone as reagent for —. **1929**, 486.
- Anise Fruits**: Volatile oil in —. **1934**, 617.
- Anise Oil** as anti-ferment. **1928**, 612.
- Microchemical distinction of —. **1929**, 363.
- Aniseed Oil**: Colour reaction distinguishing between — and star anise oil. W. v. d. D. Mareeuw, **1926**, 254.
- Simple and rapid reaction to distinguish — from star anise oil. W. P. H. v. d. D. Mareeuw, **1927**, 300.
- Aniseed Oils**: Abnormal — and B.P. requirements. W. M. Seaber and S. Marshall, **1931**, 605.
- Ankylostoma duodenale**: Carbon tetrachloride for treating —. **1926**, 260.
- Annatto** in milk. **1933**, 471.
- Anthelmintic**: Sakae seeds as —. **1934**, 754.
- Anthelmintics**: Biological method of testing san-tonin and allied —. A. Schneider, **1928**, 661.
- Anthocyanidins**: Characterisation of the anthocyanins and — by means of their colour reactions in alkaline solutions. A. Robertson and R. Robinson, **1929**, 354.
- Conversion of certain vegetable tannins into —. W. J. Chater, **1935**, 571.
- Anthocyanin pigments** in canning; Behaviour of —. C. W. Culpepper, **1927**, 648.
- Anthocyanins**: Characterisation of the anthocyanidins and — by means of their colour reactions in alkaline solutions. A. Robertson and R. Robinson, **1929**, 354.
- Anthranilic Acid** and its salts; Volumetric determination of —. H. Funk and M. Ditt, **1933**, 361.
- Determination of cobalt, nickel and copper with —. H. Funk and M. Ditt, **1933**, 567.
- Determination of lead and mercury with —. H. Funk and F. Römer, **1935**, 494.
- Determination of manganese with —. H. Funk and M. Demmel, **1934**, 435.
- Determination of zinc and cadmium with —. H. Funk and M. Ditt, **1933**, 241.
- Anthraquinone**: Determination of phenol-phthalain in presence of caffeine and cinchona alkaloids and drugs containing —. **1932**, 46.
- Anthraquinone- β -Carboxylic Acid Chloride** as a reagent for alcohols, etc. T. Reichstein, **1926**, 643.
- Anthraquinone- β -Sulphonic Acid**: Oxygen absorption by — in alkaline solution. T. K. Kruse, **1926**, 214.
- β -Anthraquinone-Monosulphonic Acid** as a microchemical reagent for alkaloids, etc. L. Rosenthaler, **1929**, 351.
- Anthrax**: Cases of — occurring in industry. **1929**, 745.
- in shaving brushes, **1935**, 819.

- Antibacterin** as preservative for bread, **1931**, 542.
- Anti-Diuretic** activity of commercial samples of pituitary extract; Comparison of the oxytocic, pressor and ——. U. G. Bijlsma, J. H. Burn and J. H. Gaddum, **1929**, 298.
- Antifebrin**: Determination of ——. G. Weissmann, **1933**, 412.
- Anti-Ferments**: Essential oils as ——. E. H. Harvey, **1928**, 612.
- Antiformin (sodium hypochlorite and caustic soda)**: Relative effectiveness of — as disinfectant **1926**, 259.
- Anti-Freezing Mixtures** of ethylene glycol type; Refractometric measurement of ——. E. H. Harvey, **1933**, 109.
- Anti-Infective** agent; Vitamin A as an ——. H. N. Green and E. Mellanby, **1928**, 664.
- Anti-Knock** materials. W. H. Church, E. Mack and C. E. Boord, **1926**, 365.
- Antilogarithms**: Non-interpolating Logarithms, Cologarithms and ——. (Review), F. W. Johnson, **1931**, 426.
- Antimonic Ion**: Iodimetric determination of the ——. A. Travers and Jouot, **1927**, 303.
- Antimonious Sulphide**: Solubility of — in ammonia and ammonium carbonate. P. A. Epik, **1932**, 590.
- Antimony** alloys; Experiments on the electrolytic analysis of ——. A. J. Lindsey and H. J. S. Sand, **1934**, 335.
- and antimony trioxide electrode used for determining the dissociation constants of certain local anaesthetics and related compounds. F. Fenwick and E. Gilman, **1930**, 52.
- Application of the thiocyanate method for precipitating copper to the confirmatory tests for cadmium and ——. A. F. Daggett, **1929**, 679.
- arsenic in presence of —; Detection of. N. A. Tananaeff and W. D. Ponomarjeff, **1935**, 496.
- as indicator electrode in the potentiometric titration of iron and aluminium. E. W. Kanning and F. H. Kratli, **1934**, 131.
- Atomic weight of ——. **1928**, 160; **1929**, 295; **1934**, 547.
- Colorimetric determination of small quantities of — and their separation from tin. S. G. Clarke, **1928**, 373.
- compounds extracted from enamel ware by citric acid solutions. R. H. Burns, **1935**, 220.
- compounds; Toxicity of ——. **1934**, 490.
- determination by the permanganate method; Conditions for ——. W. Pugh, **1933**, 176.
- Determination of small quantities of — in the form of stibine. J. Grant, **1928**, 626.
- Differentiation of tin and ——. The phosphoric ion as a sensitive reagent. T. G. Y. Arnal, **1929**, 256.
- Drop reaction for ——. **1931**, 484.
- Effect of nitric acid fumes on ——. **1935**, 427.
- electrode; Use of — in the electrometric determination of magnesium. B. B. Malvea and J. R. Withrow, **1932**, 539.
- Electrolytic separation of lead and —, and its application to the determination of lead in tartar emetic. E. M. Collin and H. J. S. Sand, **1931**, 90.
- Antimony—continued.**
- Enamel containing ——. F. M. Litterscheid, **1928**, 501.
- enamels. K. Beck and W. A. Schmidt, **1928**, 302.
- films; Solubility of Reinsch — in water. S. G. Clarke, **1929**, 99.
- halides; Gelation of china wood oils (*Aleurites*) by ——. T. François, **1934**, 364.
- in copper and copper alloys; Determination of — of ——. W. Boehm and W. Raetsch, **1932**, 538.
- in copper and its alloys; Determination of traces of ——. S. G. Clarke and B. S. Evans, **1929**, 23.
- in copper; Determination of ——. H. Blumenthal, **1932**, 797.
- in copper; Determination of small amounts of ——. B. Park and E. J. Lewis, **1933**, 497.
- in copper; Spectrographic method of determining ——. B. Park, **1934**, 501.
- in enamel ware, **1935**, 103.
- in enamelled hollow-ware. G. W. Monier-Williams, **1934**, 489.
- in foil-wrapped cheeses; Occurrence of tin and ——. C. H. Manley, **1930**, 191.
- in food and biological material; Bibliography of ——. T. J. Pope, **1934**, 109.
- in high-antimony copper alloys; Determination of — by means of sodium hydrosulphite, **1929**, 396.
- in lead and lead alloys; Determination of — by means of sodium hydrosulphite, **1929**, 398.
- in lead bullion, **1930**, 314.
- in lead; Determination of traces of ——. **1927**, 565.
- in viscera and excreta; Determination of ——. F. Bamford, **1934**, 101.
- in white metal; Permanganate titration of ——. A. Wassilieff and H. Stutzer, **1929**, 620.
- in white metals, etc.; Determination of ——. H. R. Fitter, **1927**, 729.
- Interference by — with the lead reduction method for the volumetric determination of tin. S. G. Clarke, **1931**, 82.
- lead alloyed with —; Analysis of. **1933**, 456.
- microchemistry of —; Collected references to. K. Heller, **1934**, 575.
- poisoning; A curious case of ——. J. T. Dunn, **1928**, 532.
- poisoning due to the use of enamelled vessels. **1933**, 226.
- Preparation of arsenious oxide free from —, and determination of minute amounts of — in arsenious oxide. C. W. Foulk and P. G. Horton, **1929**, 619.
- Rapid method of dissolving lead alloys preparatory to the determination of ——. B. S. Evans, **1932**, 554.
- reduction of tin and — prior to titration; New method of. B. S. Evans, **1931**, 171.
- Separation of — from beryllium, **1929**, 367.
- Separation of arsenic from ——. L. W. McCay, **1928**, 237.
- Separation of cadmium from — by means of sodium hydrosulphite, **1929**, 400.

Antimony—*continued.*

- Separation of earth acids from —. **1932**, 285.
- Separation of lead and —. H. Biltz, **1930**, 648.
- Separation of mercury from —. W. Hiltner and W. Gittel, **1935**, 428.
- Separation of thallium from —. **1928**, 459.
- Solubility of — in water. J. Grant, **1929**, 227.
- Volumetric determination of arsenic and —. P. E. Winkler, **1928**, 112.
- Antimony Chloride** method of determining vitamin *A* in cod-liver oil, **1928**, 157.
- reaction; Vitamin *A* and the —. A. Emmerie, M. von Eekelen and L. K. Wolff, **1931**, 756.
- solution; Storage and delivery apparatus for — and other corrosive reagents. G. Middleton, **1931**, 236.
- Antimony Oxides**: Stability and solubility of —. **1934**, 489.
- Antimony Pentasulphide**: Evaluation of rubber hosing, containing —, for use in the food industries. II, B. Bleyer and E. Spiegelberg, **1933**, 353.
- Antimony Trichloride** as a possible quantitative reagent for vitamin *A*; Study of —. F. Wokes and S. G. Willimott, **1927**, 515.
- as reagent for double linkings. S. Sabetay, **1933**, 712.
- blue value of cod-liver oils; Relationship between the — and that of their unsaponifiable fractions. F. J. Dyer, **1933**, 709.
- colour reaction for vitamin *A*; Study of the —. E. R. Norris and A. E. Church, **1930**, 204. II, Dilution curve of cod-liver oil with —. **1930**, 458. III, Effect of concentration of reagent used, and the stability of the chromogenic substance to light, **1931**, 126; IV, **1931**, 197.
- colour test and the ultra-violet absorption of liver oils and concentrates. A. E. Gillam and R. A. Mortøn, **1931**, 822.
- colour test for cod-liver, **1932**, 302.
- colour test for cod-liver oil; Variations in results obtained by different observers with —. N. Evers, **1930**, 287.
- colour test for vitamin *A*. N. Evers, **1929**, 612.
- colour test for vitamin *A*; Critical study of the —. W. R. Brode and M. A. Magill, **1931**, 546.
- colour test of the B.P. for cod-liver oil. Tintometer, Ltd., **1932**, 772.
- colour test; Permanence of vitamin *A* in cod-liver oil as shown by the —. N. Evers, **1930**, 287.
- Isomerisation of carotene by means of —. A. E. Gillam, I. M. Heilbron, R. A. Morton, and J. C. Drummond, **1932**, 791.
- Purification of —. **1927**, 517.
- reaction for butter-fat; Seasonal variations in —. R. G. Booth and Others, **1934**, 50.
- Reaction of — with cod-liver oil and its unsaponifiable fraction. E. L. Smith and V. Hazley, **1931**, 265.

Antimony Trichloride—*continued.*

- reaction of cod-liver oils. J. C. Drummond, **1930**, 456.
- Reaction of fish-liver oils with —. F. Ender, **1932**, 789.
- reaction with compounds containing five-membered mono-heterocyclic rings. V. E. Levine and E. Richman, **1933**, 562.
- Reactions of terpenes with —. V. E. Levine and E. Richman, **1934**, 360.
- Some liver oils yielding a strong colour reaction with —. S. and S. Schmidt-Nielsen, **1930**, 286.
- test for cod-liver oil, **1931**, 457.
- test for vitamin *A*; Interpretation of the colour match in —. R. S. Morgan, **1932**, 534.
- test for vitamin *A*; Note on —. A. F. McCarley, **1932**, 709.
- test for vitamin *A*; Reaction of fatty extracts of certain organs with the —. W. H. Wilson, **1928**, 48.
- test for vitamin *A*; Substances which interfere with —. R. E. Corbet, H. H. Geisinger and H. N. Holmes, **1933**, 414.
- test for vitamins; Priority for the —. **1928**, 50.
- Antimony Trioxide**: Use of antimony and — electrode for determining the dissociation constants of certain local anaesthetics and related compounds. F. Fenwick and E. Gilman, **1930**, 52.
- Antineuritic** potency of cow's milk; Relative antipellagric and —. C. H. Hunt and W. E. Krauss, **1928**, 668.
- substances; Differentiation between the water-soluble growth-promoting and —. S. M. Hauge and C. W. Carrick, **1926**, 586.
- vitamin. A. G. van Veen, **1931**, 126.
- vitamin; Isolation of the —. A. Seidell and V. Birckner, **1931**, 547.
- vitamin; Jansen and Donath procedure for isolating —. R. R. Williams, R. E. Waterman and S. Gurin, **1930**, 590.
- vitamin. Properties of the "curative" substance. J. L. Rosedale and C. J. Oliveiro, **1929**, 248.
- vitamin; Syntheses of — by yeast. G. L. Peskett, **1928**, 47.
- vitamin *B*; Assay of — and its concentration with silver. R. J. Block, G. R. Cowgill and B. H. Klotz, **1932**, 186.
- vitamin *B* from brewers' yeast; Further progress towards the isolation of —. A. Seidell, **1929**, 482.
- vitamin *B* in beef and pork. R. Hoagland, **1929**, 432.
- vitamin *B*; New differentiation between the — and the purely growth-promoting vitamin *B*. H. M. Evans and G. O. Burr, **1928**, 349.
- vitamin *B*. Standards for —. **1932**, 175.
- Anti-Oxidants** and the autoxidation of fats. H. A. Mattill, **1931**, 200; H. S. Olcott, **1935**, 114.
- Association of fat-soluble vitamins and — in plant tissues. E. M. Bradway and H. A. Mattill, **1935**, 111.

- Anti-Oxygens** of fatty oils. Action of *p*-nitraniline. M. Nakamura, **1934**, 363.
 present in natural fats; Nature, of —. I, Separation of fatty derivatives from — by distillation. T. P. Hilditch and J. J. Sleightholme, **1932**, 320.
- Antipellagric** potency of cows' milk; Relative antineuritic and —. C. H. Hunt and W. E. Krauss, **1928**, 668.
- Antipyrine** as a reagent for cobalt. K. Woyhoff, **1932**, 60.
 in pyramidone; Detection of —. P. Duquenois, **1932**, 581.
 in pyramidone; Detection and determination of —. J. Eury, **1933**, 290.
 in pyramidone; Determination of —. M. Ribere, **1931**, 123.
 in the detection of tannins; Use of —. A. H. Ware and V. Smith, **1933**, 703.
 Microchemistry of —. M. Wagenaar, **1935**, 576.
- Antiques**: Their Restoration and Preservation. 2nd Ed. (Review), A. Lucas, **1932**, 744.
- Antirachitic** activatability of mould mycella. L. M. Pruess, W. H. Peterson, H. Steenbock and E. B. Fred, **1931**, 196.
 activation of some derivatives of ergosterol and cholesterol. D. W. MacCorquodale, H. Steenbock and H. Adkins, **1930**, 587.
 activity in irradiated milk, **1930**, 56.
 factor in human milk and cows' milk; Quantitative comparison of the —. J. Out-house, I. G. Macy and V. Brekke, **1928**, 450.
 factor of autumn and winter butter; Chemical differentiation of — from irradiated ergosterol and the vitamin D of cod-liver oil. S. K. Kon and R. G. Booth, **1934**, 53.
 factor of cod-liver oil; Effect of storage on the — when mixed with ground grains. E. B. Hart, H. Steenbock and S. Lepkovsky, **1926**, 94.
 potency of ergosterol irradiated by ultra-violet light and by exposure to cathode rays; Comparison of —. A. Knudson and C. N. Moore, **1929**, 183.
 potency of milk; Irradiation of milk for increasing the —. D. Nabarro and J. O. Hickman, **1930**, 206.
 properties of cod-liver meals. R. M. Bethke, G. Zinzalian, D. C. Kennard and H. L. Sassaman, **1929**, 182.
 substances. IV, The polymerisation of cholesterol. C. E. Bills and F. G. McDonald, **1926**, 469; VIII, Studies on highly purified ergosterol and its esters. C. E. Bills and E. M. Honeywell, **1929**, 53.
 value of cows' milk as modified by exposure of the cow to sunlight and to radiations from a quartz mercury vapour lamp. H. Steenbock and Associates, **1930**, 457.
 value of irradiated cholesterol. II, Separation into an active and inactive fraction. A. F. Hess, M. Weinstock and E. Sherman, **1926**, 638.
 value of irradiated yeast. S. K. Kon and M. Mayzner, **1930**, 400.
 vitamin in different samples of cod-liver oil, milk and butter; Variations in amounts of —. K. H. Coward, **1929**, 302.
- Antirachitic—continued.**
 vitamin; Relation between amount of ultra-violet light received by hens and amount of — in eggs produced. J. S. Hughes, L. F. Payne, R. W. Titus and J. M. Moore, **1926**, 207.
 vitamin D; Assay of the —. K. H. Coward, **1928**, 449.
 vitamin D. Standards for —. **1932**, 174; (Medical Research Council), **1930**, 692.
- Antiscorbutic** factor precipitated from lemon juice. S. S. Zilva, **1927**, 425.
 factor present in lemon juice; Solubilities of the —. E. B. Vedder and W. E. Lawson, **1927**, 424.
 factor; Specificity of hexuronic (ascorbic) acid as —. L. J. Harris and S. N. Ray, **1933**, 489.
 fraction of lemon juice. V, S. S. Zilva, **1927**, 552; VI, E. Hoyle and S. S. Zilva, **1928**, 47; VII, S. S. Zilva, **1928**, 552; VIII, S. S. Zilva, **1930**, 289; IX, S. S. Zilva, **1931**, 265.
 potency of apples. V, M. B. Crane and S. S. Zilva, **1933**, 234; VI, T. Wallace and S. S. Zilva, **1933**, 631.
 potency of ascorbic acid; Standardisation of —. L. J. Harris and S. N. Ray, **1934**, 359.
 property of fruits; Effect of drying and of sulphur dioxide upon the —. A. F. Morgan and A. Field, **1929**, 483.
 Use of pine-needle concentrate to render canned preserves —. N. Jarussowa, **1935**, 566.
 value of foodstuffs; Determination of — by Köjer's method. M. Goetsch, **1928**, 611.
 vitamin in apples. M. F. Bracewell, E. Hoyle and S. S. Zilva, **1930**, 766.
 vitamin C; Chemical investigations on the —. I, O. Rygh, A. Rygh and P. Laland, **1932**, 187. II, Narcotine and its derivatives as — substance. O. Rygh and A. Rygh, **1932**, 188.
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- Anti-Scorbutics**: Concentrated orange juice. Merchant Shipping (—) Order, **1927**, **1928**, 226.
- Antiseptic** constituents of hops; Gravimetric determination of —. T. K. Walker and J. J. H. Hastings, **1933**, 702.
 in impregnated dressings; Identification of —. **1932**, 297.
 Orthophenylphenol as an —. H. C. Fuller, **1934**, 766.
 phenol from betel leaves; Aseptosol: a new —. J. McLang, **1926**, 356.
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- Antiseptics**: Influence of — on yeast autolysis. H. Haehn and H. Leopold, **1935**, 193.
- Anti-Sera** for precipitin tests; Instability of — in the tropics. H. S. Shrewsbury, **1929**, 29.
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- Aphidian Parasites** of the terebinth; Fat from —. J. Timon-David, **1928**, 236.
- Aphrogen**: **1927**, 42.

- Apiol:** J. F. Walmsley, **1928**, 500.
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- Arogosypol:** Studies on gossypol. IV, —. E. P. Clark, **1928**, 453.
- Apomorphine:** Bromine as a reagent in determining —. **1931**, 728.
Fate of — after subcutaneous injection. F. Bamford, **1930**, 502.
New colour reaction for —. **1927**, 41.
- Apple** and fruit jams; Analysis of —. C. F. Muttelet, **1927**, 598.
cuticle; Wax constituents of the —. A. C. Chibnall, S. H. Piper, A. Pollard, J. A. B. Smith and E. F. Williams, **1932**, 258.
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juice in wine; Detection of —. J. Werder, **1929**, 476.
juices; Determination of starch in pectin and — by a sedimentic method. H. Eckart and A. Diem, **1926**, 524.
matter in raspberry jam: A question of warranty. (Legal Notes), **1927**, 533.
Non-volatile acids of the —. E. K. Nelson, **1927**, 418.
pulp in jam; Detection of —. W. Partridge, **1926**, 346.
pomace; Determination of pectin in dried —. D. W. Stewart, **1933**, 397.
products; Vitamin C content of —. C. R. Fellers, M. M. Cleveland and J. A. Clague, **1933**, 771.
reducing sugars in the —; Iodimetric determination of. H. K. Archbold and E. M. Widdowson, **1931**, 462.
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waxlike coating on the surface of the — during growth and storage; Progressive changes in. K. S. Markley and C. E. Sando, **1931**, 609.
- Apples:** Agricultural Produce (Grading and Marking) (—) Regulations, 1929. **1930**, 45.
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Antiscorbutic potency of —. V, M. B. Crane and S. S. Zilva, **1933**, 234; VI, T. Wallace and S. S. Zilva, **1933**, 631.
Antiscorbutic vitamin in —. M. F. Bracewell, E. Hoyle and S. S. Zilva, **1930**, 766.
Arsenic in —. **1928**, 287, 598.
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- Apples—continued.**
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bitter pit in —. A review of the problem. (Food Investigation Board Report No. 28). **1927**, 80.
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Contamination of — by arsenic. (Ministry of Health Circular No. 659). **1926**, 38.
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Wastage in imported —. **1930**, 634.
wax-like coating of —; Further studies on —. K. S. Markley, S. B. Hendricks and C. E. Sando, **1933**, 41.
- Applied Chemistry:** Vol. I, Water, Detergents, Textiles, Fuels, etc. (Review), C. K. Tinkler and H. Masters, 2nd Ed., **1929**, 311; 3rd Ed., **1935**, 501; Vol. II, Foods, **1926**, 543; 2nd Ed., **1932**, 480.
Catalytic Processes in —. (Review), T. P. Hilditch, **1930**, 68.
Dictionary of —. Vol. VI, (Review), Sir E. Thorpe, **1926**, 374; Vol. VII, **1928**, 181; Supplement Vol. I, J. F. Thorpe and M. A. Whiteley, **1934**, 781; Vol. II, **1935**, 645.
Eighth Conference of the International Union for Pure and —. **1928**, 41; Ninth Conference, **1928**, 655.
Fourth National Congress of Pure and —. **1932**, 714.
Origins and Development of. (Review), J. R. Partington, **1935**, 498.

Applied Chemistry—continued.

- Society of Chemical Industry Reports on the Progress of —. (Review), Vol. X, **1926**, 603; Vol. XI, **1927**, 369; Vol. XII, **1928**, 410; Vol. XIII, **1929**, 772; Vol. XIV, **1930**, 532; Vol. XV, **1931**, 486; Vol. XVI, **1932**, 479; Vol. XVII, **1933**, 312; Vol. XVIII, **1934**, 443; Vol. XIX, **1935**, 346.
- Appointments:** Official —. **1929**, 285, 332, 411, 536, 657, 735; **1930**, 277, 383, 565, 566; **1931**, 105, 180, 398, 530, 598; **1932**, 29, 163, 518, 629; **1933**, 29, 91, 155, 223, 398, 533, 756; **1934**, 30, 108, 172, 344, 403, 689, 750, 818; **1935**, 35.
- Apricot pulp;** Composition of —. **1927**, 352.
- Apricot-Kernel Oil:** Colour reactions of —. H. Mohler and H. Benz, **1933**, 764.
- Reactions of —. J. Pritzker and R. Jungkuz, **1928**, 102.
- Sale of — as almond oil. (Legal Notes), **1928**, 337.
- Apricots:** Analyses of —. L. H. Lampitt and E. B. Hughes, **1928**, 33.
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- Boron compounds in dried —. **1929**, 16.
- Sulphur dioxide in dried —. **1931**, 314.
- vitamin C content of —; Effect of drying and sulphuring on. A. F. Morgan, A. Field and P. F. Nicholls, **1931**, 329.
- Aquo-Ammonocarbonic Acids:** New reactions of the mixed —. L. A. Pinck and J. S. Blair, **1927**, 248.
- Arabinogalacturonic Acid** derived from orange pectin. J. R. Bowman and R. B. McKinnis, **1930**, 336.
- Arabs:** Blood group percentages for Armenians, Jews and —. E. H. R. Altounyan, **1928**, 350.
- Arachidic Acid:** Absence of — from cocoa butter. O. Lüning and W. Drude, **1931**, 602.
- Arachidonic Acid:** Chemistry of — and its quantitative determination. W. C. Ault and J. B. Brown, **1935**, 115.
- in lard. J. B. Brown and E. M. Deck, **1930**, 335.
- Preparation of —. J. B. Brown, **1929**, 113.
- Arachin:** Properties of — and conarachin and the proportionate occurrence of these proteins in the arachis nut. D. B. Jones and M. J. Horn, **1930**, 395.
- Arachis** coffee substitute; "Assamba," a new —. J. Pritzker and R. Jungkuz, **1932**, 786.
- Arachis Nut:** Properties of arachin and conarachin and the proportionate occurrence of these proteins in the —. D. B. Jones and M. J. Horn, **1930**, 395.
- Arachis Oil:** Colour measurement of —. **1935**, 453.
- Detection and determination of sesame oil when mixed with other edible oils, with particular reference to —. E. H. Bunce, **1930**, 567.
- Halogen absorption of —. **1929**, 447.
- Iodine value of —. **1933**, 525.
- mixtures; Determination of the molecular weights of the higher saturated fatty acids and its use in determining lignoceric acid in hardened —. J. Grossfeld, **1930**, 138.
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- Thiocyanogen absorption of —. **1926**, 264.
- Aragonite:** Spot test for distinguishing calcite and —. F. Feigl and H. Leitmeier, **1935**, 642.
- Arak:** Definition of —. **1932**, 38.
- Arc-Spectrographic** detection and determination of germanium. J. Papish, F. M. Brewer and D. A. Holt, **1928**, 113.
- Areca Nut** poisoning. **1934**, 543.
- Arecoline:** Behaviour and identification of — and its use as a taenicide, with some comparisons with pelletierine. C. D. Howard, **1932**, 391.
- Methyl red as indicator for —. **1926**, 316.
- Argentine Republic:** Decrees of Ministry of Local Government. Tomato Conserves. **1935**, 324. Permissible amounts of sulphur dioxide in wine. **1935**, 325.
- Argentometric** determination of alkali and sulphide in sodium aluminate. N. A. Tananaeff and M. A. Schachowa, **1935**, 427.
- determination of iodide in presence of chloride. I. M. Kolthoff, **1927**, 305.
- Argentometric** determination of selenocyanate. R. Ripan, **1933**, 783.
- determination of sodium sulphide and sulphhydrate. N. A. Tananaeff and J. N. Kremer, **1935**, 427.
- halogen titrations; Accuracy of —. I. M. Kolthoff and L. H. van Berk, **1927**, 304.
- Argentometry:** New adsorption indicators for —, together with a comparison of their limits of sensitiveness. A. J. Berry and P. J. Durrant, **1930**, 613.
- New indicators for —. E. Chirnoaga, **1935**, 428.
- Arginase** method for determining arginine and its use in the analysis of proteins. A. Hunter and J. A. Dauphinee, **1930**, 203.
- Arginine:** Arginase method for determining — and its use in the analysis of proteins. A. Hunter and J. A. Dauphinee, **1930**, 203.
- Direct determination of — in the analysis of proteins. VII, R. H. A. Plimmer and J. L. Rosedale, **1926**, 309.
- Quantitative determination of — by means of the Sakaguchi reaction. E. Jorpes and S. Thorén, **1933**, 103.
- Separation of histidine and —. H. B. Vickery and C. S. Leavenworth, **1926**, 418.
- Studies on —. I, Rate of catabolism of — in rats, including method for determination of — in biological material. V. C. Kiech, J. M. Luck and A. E. Smith, **1931**, 327.
- Argon:** Atomic weight of —. **1929**, 295; **1934**, 547; **1928**, 159, 160.
- in argon-nitrogen mixtures; Spectroscopic detection of —. J. A. M. van Liempt and S. H. R. Visser, **1935**, 60.
- in blood. L. Hackspill, A. P. Rollet and M. Nicloux, **1926**, 357.
- nitrogen in —; Removal and determination of. C. Leu, **1928**, 673.
- Simple method for determining —. H. Copaux, **1932**, 736.

- Argyrol**: Differentiation reactions of collargol, electrargol, protargol and ——. C. Vaillé, **1934**, 422.
- Aristols**: Determination of certain phenols by weighing their ——. M. François and L. Seguin, **1933**, 777.
- Armenian** bole; Arsenious oxide in ——. **1926**, 413.
- Armenians**: Blood group percentages for Arabs, Jews and ——. E. H. R. Altounyan, **1928**, 350.
- Army biscuits**: Valuation of — from chemical analysis. J. Straub and J. P. Peper, **1928**, 602.
- Arnold's** sodium nitroprusside reaction for proteins and the denaturing of flesh protein by means of concentrated urea solution. K. Beck and H. Urack, **1933**, 408.
- Aromatic** aldehydes; Quantitative determination of — by titration with a solution of benzidine. P. N. Van Eck, **1928**, 174.
- aldehydes; Reaction of —. M. V. Ionescu, **1930**, 344.
- aldehydes; Spot test for —. **1935**, 275.
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- amines; New colour reaction of —. I. de Paolini, **1931**, 129.
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- amines; Spot test for primary — with glutaconic aldehyde. **1935**, 343.
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- Arrowroot**: Adulteration of —. **1934**, 482.
- Manganese in —. **1929**, 348.
- "Marble" —. P. Jones, **1934**, 493.
- Sweet potato starch in cornflour and —. J. R. Stubbs, **1926**, 400.
- Arsenate** in phosphate-free solution; Colorimetric determination of —. C. Zinzadze, **1935**, 640.
- New test for —. L. W. Marrison, **1935**, 784.
- Arsenate of Lead**: Poisoning by —. **1929**, 599.
- Arsenates**: Rapid method for determining —. M. FitzGibbon, **1933**, 469.
- Separation of arsenites from —. T. G. Y. Arnal, **1933**, 421.
- Arsenic**: Accuracy of the Gutzeit method for —. J. R. Neller, **1929**, 618.
- apparatus; Modified Gutzeit —. A. J. Lindsey, **1930**, 503.
- Atomic weight of —. **1928**, 160; **1929**, 295; **1931**, 538; **1934**, 414, 547.
- Biological method for detecting —. A. F. Lerrigo, **1932**, 155.
- Biological methylation of compounds of — and selenium. F. Challenger, **1935**, 713.
- bromate titration of —; Selenium as indicator in. L. Szebellédy and K. Schick, **1934**, 571.
- Colorimetric determination of —. A. Poljakow and N. Kojokolow, **1930**, 216.
- Arsenic—continued.**
- Colorimetric determination of minute amounts of compounds of silicon, of phosphorus and of —. W. R. G. Atkins and E. G. Wilson, **1927**, 249.
- compounds and phosphorus compounds of sea-water. W. R. G. Atkins and E. G. Wilson, **1927**, 427.
- compounds in atmospheric dusts; Occurrence and source of —. J. T. Dunn and H. C. L. Bloxam, **1933**, 500.
- compounds in marine crustaceans and shell fish; On the presence of —. A. C. Chapman, **1926**, 548.
- Contamination of apples by —. (Ministry of Health Circular No. 659), **1926**, 38.
- content of 'American cod-liver oil. A. D. Holmes and R. Remington, **1934**, 633.
- content of Baden wines. E. Remy and F. Richter, **1930**, 282.
- content of the well water of Choussy, at La Bourboule, and fixation of the arsenic by organisms. R. Clogne, A. Courtois and Cazala, **1930**, 456.
- Detection of —. Dauvé, **1929**, 56.
- determination of minute quantities of —; New type of mercury cathode cell for. T. Callan and R. T. Parry Jones, **1930**, 90.
- determinations; Effect of cellulose on —. T. J. Ward, **1926**, 457.
- distillation apparatus without ground-glass connections. B. S. Evans, **1933**, 470.
- Distribution of — among colours. **1927**, 219.
- Drop reaction for —. **1931**, 484.
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- Frozen meat contaminated with —. **1934**, 31.
- germanium in presence of —; Detection and determination of small quantities of. S. A. Coase, **1934**, 462, 747.
- "Gulf sickness" and the — theory. A. Juckenack and A. Brüning, **1926**, 531.
- Gutzeit test for —; Method of applying. C. H. Cribb, **1927**, 701.
- Gutzeit test for —; Modification of. G. Lockemann and B. von Bülow, **1933**, 780.
- Gutzeit test for —; Production of uniform stains in the. J. R. Stubbs, **1927**, 699; A. S. Dodd, **1928**, 152; C. H. Manley, **1929**, 30.
- in a body in a fatal case of poisoning by hydrogen arsenide; Distribution of —. F. J. T. Grigg, **1929**, 659.
- in animals. **1926**, 549.
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- in Canadian sprayed apples; Examination for —. F. T. Shutt, 1926, 291.
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- in fish and in cod-liver oil. E. Sadolin, 1929, 547.
- in food-colouring materials. 1927, 503, 529.
- in food-colouring materials. First Report of Sub-Committee on Determination of —. Determination of arsenic. 1930, 102; Second Report. Determination of lead. 1935, 541.
- in fruit; Occurrence of — as a result of treatment with protecting agents. L. Lendrich and F. Mayer, 1927, 237.
- in hair tonic, 1926, 89.
- in impregnated wood; Determination of —. 1932, 737.
- in kindergarten materials. E. Merres and R. Turnau, 1933, 296.
- in lead; Determination of traces of —. 1927, 566.
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- in presence of antimony; Detection of —. N. A. Tananaeff and W. D. Ponomarjeff, 1935, 496.
- in presence of selenium; Detection of —. E. Guérin, 1928, 508.
- in printing ink. T. H. Barry, 1927, 217; R. S. Morrell and C. I. Smyth, 1927, 339.
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- in tobacco. 1935, 41.
- in writing materials. G. Kappeller, 1930, 771.
- inorganic phosphate in presence of —; Determination of. L. B. Pett, 1934, 647.
- lead in copper alloys containing —; Determination of small amounts of. 1933, 24.
- Mercuric bromide paper for use in the Gutzeit test for —. G. Kemmerer and H. H. Schrenk, 1926, 478.
- microchemistry of —; Collected references to. K. Heller, 1934, 575.

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- Mould-growth test for minute amounts of —. H. R. Smith and E. J. Cameron, 1934, 123.
- Nephelometric determination of —. A. Amati, 1934, 716.
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- Quantitative determination of — by Marsh's process. J. Gangl and J. V. Sanchez, 1934, 716.
- separation and determination of —; Method for. B. S. Evans, 1929, 523.
- Separation of — from antimony. L. W. McCay, 1928, 237.
- Separation of — from beryllium. 1929, 367.
- Separation of germanium and —. H. J. Abrahams and J. H. Müller, 1932, 194.
- Separation of mercury from —. W. Hiltner and W. Gittel, 1935, 428.
- Separation of thallium from —. 1928, 459.
- Soluble — in calcium arsenate and lime sulphur sprays, 1928, 597.
- Source of — hitherto unsuspected. R. E. Remington, 1927, 487.
- test of the German Pharmacopoeia. G. Frerichs, 1929, 56.
- trivalent; Titrimetric determination of — by oxidation. F. G. Germuth, 1928, 177.
- Volumetric determination of antimony and —. P. E. Winkler, 1928, 112.
- Works; Report on —. 1933, 537.
- **Arsenic Acid**: Detection of —. N. A. Tananaeff and C. N. Potschinok, 1932, 540.
- Iodimetric determination of —. B. Ormont, 1926, 269.
- Micro-determination of — with "molybdenum blue." S. Zinzadze, 1932, 411.
- Volumetric determination of —. M. F. Taboury and H. Audidier, 1935, 272.
- **Arsenic Chloride** method of determining vitamin A in cod-liver oil. 1928, 156.
- Use of activated carbon for removing small quantities of — from hydrochloric acid. S. E. Coalstad, 1934, 716.
- **Arsenic Pentoxide**: Determination of — as magnesium ammonium arsenate. W. M. McNabb, 1927, 494.
- **Arsenic Sulphide** as poison. 1932, 39.
- **Arsenic Trichloride**: Separation of germanium tetrachloride and —. E. R. Allison and J. H. Müller, 1932, 670.
- **Arsenical** apples; Inspector's right of selection. (Legal Notes), 1926, 242.
- apples. (Legal Notes), 1926, 574.
- copper; Determination of traces of antimony in —. 1929, 26.
- injury; Composition of commercial acid lead arsenate and its relation to —. H. S. Swingle, 1930, 60.
- poisoning. 1931, 744.
- poisoning in industry. 1929, 745.
- spray residue; Sampling apples in the orchard for the determination of —. J. W. Barnes, 1929, 347.
- **Arsenides**: Hydrogen arsenide poisoning due to the action of water on metallic —. R. R. Bomford and D. Hunter, 1933, 106.

- Arsenious Acid** method for periodic acid in presence of iodic acid. **1933**, 307.
- Osmium tetroxide as catalyst for the oxidation of —. K. Gleu, **1934**, 130.
- Arsenious Oxide**: Preparation of antimony-free — and determination of minute amounts of antimony in —. C. W. Foulk and P. G. Horton, **1929**, 619.
- Arsenite** in the oxidimetric determination of cerium. R. Lang, **1934**, 646.
- Arsenites**: Separation of — from arsenates. T. G. Y. Arnal, **1933**, 421.
- Arsenophosphotungstic Acid**: Detection and determination of cobalt by —. A. Liebersohn, **1930**, 294.
- Arsines**: Reaction for primary —. S. S. Nametkin and W. Nekrassow, **1929**, 489.
- Arsinic Acids**: molecular weight of —; Use of camphor in cryoscopy for determining. C. Schuster, **1934**, 508.
- Titrimetric determination of primary —. H. King and G. V. Rutterford, **1930**, 717.
- Artemisia**: santonin in —; Assay of. J. Coutts, **1932**, 726.
- Two new crystalline principles from Indian species of —. **1935**, 187.
- Artemisia Afra**: Mineral constituents of —. G. W. B. van der Lingen, **1933**, 280.
- Artemisia Rigida** (Nutt.) Gray: Oils of —. G. Norin and R. L. McMurray, **1935**, 481.
- Artemisia Santonica**: Microchemical identification of —. F. Amelink, **1930**, 52.
- Artesian waters** in Philippine Islands. **1933**, 348.
- Artichokes**: Analysis of Jerusalem —. R. F. Jackson, C. G. Silsbee and M. J. Proffitt, **1926**, 304.
- Cellulose production from —. **1928**, 223.
- Artificial Cream Act**: Action by private individuals under the —. **1930**, 43.
- An appeal case under —. (Legal Notes), **1931**, 253.
- Cream sandwiches and the —. (Legal Notes), **1930**, 689.
- Ministry of Health Circular No. 989, **1929**, 344.
- Parliamentary Notes, **1929**, 341.
- Artificial Daylight**° shades; Dyes for —. **1926**, 597.
- Artificial Diets**: Use of commercial dextrin in —. L. Randoin and R. Lecocq, **1926**, 638.
- Artificial Silk**: Action of penicillium on —. T. F. Heyes and H. S. Holden, **1932**, 471.
- Identification of —. W. D. Grier, **1929**, 364.
- in mixed textiles; Quantitative determination of —. P. Kraiss and H. Markert, **1932**, 667.
- in mixtures of cotton waste and —; Determination of. P. McGregor and C. F. M. Fryd, **1933**, 301.
- Manufacture of —. E. Wheeler, (Review), **1928**, 623; 2nd Ed., **1931**, 213.
- Miscellaneous reactions for —. **1926**, 213. (Review). O. Faust, **1929**, 499; F. Reinthaler, **1929**, 260.
- works; Dust and smell from —. **1934**, 624.
- Artificial Wools**: Misuse of terms. **1926**, 244.
- Aryl** and alkyl halogen; Separation of —. Q. Landis and H. J. Wichmann, **1931**, 61.
- Arylamine Salts** of the naphthalene-sulphonic acids. III, Separation of Crocein, Schäfer, R. and G. acids and their —. R. B. Forster and C. M. Keyworth, **1927**, 169.
- Arylcarbimides**: Use of — in identifying hydroxylic compounds. G. T. Morgan and A. E. J. Pettet, **1931**, 612.
- Arylsulphonyl Chlorides**: Interaction of amines and phenols with —. F. Bell, **1931**, 802.
- Arzneispezialitäten**: Untersuchungsmethoden für —. (Review), **1933**, 428.
- Asbestos**: Application of X-rays in the classification of fibrous silicate minerals commonly termed —. H. V. Anderson and G. L. Clark, **1929**, 771.
- Ascaridole** in chenopodium oil; Determination of —. H. Paget, **1926**, 170; T. T. Cocking and F. C. Hymas, **1930**, 180.
- Ascorbic Acid**: Antiscorbutic activity of —. **1933**, 489.
- as antiscorbutic factor?; Specificity of —. L. J. Harris and S. N. Ray, **1933**, 489.
- Behaviour of — and other reducers towards catheptic and other enzymes. H. v. Euler, P. Kärner and F. Zehender, **1934**, 295.
- content of certain citrus fruits and some manufactured citrus products. A. L. Bacharach, P. M. Cook and E. L. Smith, **1934**, 709.
- content of the adrenals and livers of different animals. J. L. Svrbely, **1933**, 632.
- Effect of — on toxins. E. Harde, **1934**, 765.
- estimation of — by titration; Observations on. E. W. McHenry and M. Graham, **1935**, 835.
- Formula for —. **1934**, 73.
- Glucoreductone for standardising 2, 6-dichlorophenolindophenol solutions used for determining —. Z. I. Kertesz, **1934**, 427.
- Influence of — on plant and animal amylases. A. Purr, **1934**, 710.
- oxidase. H. Tauber, I. S. Kleiner and D. Miskind, **1935**, 629.
- Physiological action of — and some related compounds. V. Demole, **1934**, 709.
- Quantitative determination of —. H. Tauber and I. S. Kleiner, **1935**, 264.
- Sensitive spot reaction for —. H. Tauber, **1935**, 487, 629.
- Separation of cysteine from — by means of mercuric acetate. A. Emmerle, **1934**, 559.
- Standardisation of the antiscorbutic potency of —. L. J. Harris and S. N. Ray, **1934**, 359.
- Aseptosol**: A new antiseptic phenol from betel leaves. J. McLang, **1926**, 356.
- Ash** of plants; Determination of the acid-base balance in —. D. E. Frear, **1930**, 767.
- Asparaginase**: Observations upon the enzyme —. W. F. Geddes and A. Hunter, **1928**, 347.
- Asparagine**: glutamine in presence of —; Determination of. A. C. Chibnall and R. G. Westall, **1932**, 393.
- in alfalfa; Amino acids and —. H. B. Vickery, **1926**, 100.

- Asparagine**—*continued*.
Stimulation of yeast growth by thallium, a "bios" impurity of —. O. W. Richards, 1932, 663.
- Asparagus**: Vitamin A content of —. J. W. Crist and M. Dye, 1929, 300.
Vitamin A content of — grown under light of various qualities. J. W. Crist and M. Dye, 1931, 410.
- Aspergilli** and their relation to decay in apples. G. A. Huber, 1931, 199.
in cotton goods; Identification of —. G. Smith, 1931, 268.
- Aspergillus** species. Identification of fungi causing mildew on cotton goods. G. Smith, 1928, 296.
- Aspergillus Niger**: Effect of rhizopin on the growth of —. N. Nielsen, 1932, 190.
method of examining soils. A. M. Smith and A. Dryburgh, 1934, 766.
Use of — in testing potash availability in fertilisers. L. D. Haigh, 1935, 630.
- Aspergillus Oryzae**: amylase solution of —; Preservation of the. K. Oshima, 1928, 612.
- Aspergillus Versicolor**: Growth of — on higher paraffins. S. J. Hopkins and A. C. Chibnall, 1932, 398.
- Asphalt**: Analysis of —. D. M. Wilson, 1935, 117.
content of mineral oils; Determination of —. J. Marcusson, 1927, 300.
roofs; Blisters on —. 1934, 757.
Verification of specifications for —. D. M. Wilson, 1935, 493.
- Asphaltene**: Determination of —. F. J. Nellensteyn and N. M. Roodenburg, 1930, 768.
- Asphaltic** compositions; New B.S.I. specification for —, and the chemist. D. M. Wilson, 1935, 839.
- Asphyxiation** by wet rubber. 1930, 754.
- Aspirin**: Determination of —. G. Weissmann, 1933, 412.
Free salicylic acid in —. 1927, 232.
in tropical countries. 1928, 40.
in urine; Detection of —. 1935, 472.
tablets; Examination of —. 1926, 183.
tablets; French chalk in —. 1934, 538.
tablets; Salicylic acid and French chalk in —. 1935, 553.
- Assamba**: a new arachis coffee substitute. 1932, 786.
- Assaying**: Magnesite: its application in —. R. J. B. Kethel, 1930, 658.
- Association of Official Agricultural Chemists**: Method for determining sulphurous acid in food products; Comparison of the Monier-Williams and —. J. Fitelson, 1929, 297.
Official and Tentative Methods of Analysis of —. (Review), 1932, 342.
- Associazione Italiana di Chimica**: Address of the Society of Public Analysts to the —. 1926, 280.
- Assyrians**: Chemistry of the Ancient —. (Review), R. C. Thompson, 1926, 112.
- Asteriastigma Macrocarpa**: Oil from the seeds of —. D. H. Peacock and Chit Thong, 1931, 117.
- Asthma** cigarettes. 1927, 473.
- Atmosphere**: chlorides in the —; Distribution and transport of. F. Bordas and A. Desfemmes, 1927, 730.
combustible vapours in the —; Simple apparatus for the rapid determination of. L. C. McNair and H. C. Gull, 1932, 159.
formaldehyde in terrestrial and solar —; Presence of. N. R. Dhar and A. Ram, 1933, 634.
Ozone in the —. J. Levine, 1928, 57.
Polluted — a factor in the deterioration of bookbinding leather. F. P. Veitch, R. W. Frey and L. R. Leinbach, 1926, 373.
quartz dust particles in the —; Determination of. F. Löwe, 1933, 571.
sulphur dioxide in the —; Determination of small amounts of. S. W. Griffin and W. W. Skinner, 1932, 668.
Sulphur impurities in —. 1935, 687.
Sulphurous acid in the —. 1933, 96.
Water vapour in the —. H. Kohler, 1927, 368.
- Atmospheres**: Apparatus for continuous percolation and for filtration in neutral —. B. S. Evans, 1926, 229.
- Atmospheric** corrosion as related to — pollution. 1934, 281.
Corrosion of Metals. 1930, 232.
deposit recorder; A new —. 1927, 155.
dusts; Comparative tests of instruments for determining —. (U.S.A. Public Health Bulletin No. 144), 1926, 36.
dusts; Occurrence and source of lead, copper, zinc and arsenic compounds in —. J. T. Dunn and H. C. L. Bloxam, 1933, 500.
humidity; Effect of — on the keeping properties of bacon. C. H. Lea, 1933, 288.
Nitrogen; Fixation of —. (Review), F. A. Ernst, 1929, 195.
ozone; New method for the optical determination of —. A. I. Duninowski, 1931, 136.
pollution during the Coal Strike, 1926, 1927, 79.
pollution in London. 1926, 412.
pollution in London and Philadelphia; Comparison of —. 1935, 410.
pollution; Investigation of —. Report on Observations in the year ending March 31st, 1925, 1926, 86; in 1926, 1927, 155; in 1927, 1928, 494; in 1928, 1930, 450; in 1929, 1930, 755; in 1930, 1931, 254; in 1931, 1932, 249; in 1932, 1933, 283; in 1933, 1934, 280; in 1934, 1935, 409.
pollution; Measurement of —. J. S. Owens, 1926, 2.
pollution; Measurement of sunlight and ultra-violet light. 1933, 690.
Pollution of Metals. 1930, 232.
pollution; Smoke and —. 1927, 477.
sulphur pollution measured by means of lead peroxide. B. H. Wilsdon and F. J. McConnell, 1935, 122.
- Atom**: The —. (Review), J. Tutin, 1934, 509.

- Atomic Form**, with special reference to the Configuration of the Carbon Atom. (Review), E. E. Price, **1928**, 183.
 number 61: Ilinium; The element of —. J. A. Harris, L. F. Yntema and B. S. Hopkins, **1926**, 372.
 Structure as modified by Oxidation and Reduction. (Review), W. C. Reynolds, **1928**, 676.
 weights; Committee on —. Annual Report for 1926, **1927**, 287; for 1927, **1928**, 289.
 weights, 1928. (German Commission). **1928**, 159. Erratum, **1928**, 241.
 weights, 1929; Revised table of —. **1929**, 294.
 weights; First Report of Committee on — of the International Union of Chemistry, **1931**, 538; Second Report, **1932**, 316; Third Report, **1933**, 230; Fourth Report, **1934**, 310, 414, 547; Fifth Report, **1935**, 477.
- Atoms and Molecules**. (Review), R. M. Caven, **1928**, 309.
- Atophan**: Microchemistry of —. M. Wagenaar, **1934**, 779.
- Atoxyl**: Identification of —. M. Wagenaar, **1933**, 290.
- Atropine**: Identification of — by means of Wagner's reagent. C. C. Fulton, **1929**, 608.
 Methyl red as indicator for —. **1926**, 316.
- Aurantia** in foodstuffs; Detection of —. **1927**, 585.
 in foodstuffs; Identification of —. **1928**, 421, 422.
- Aurin Tricarboxylic Acid**: Colorimetric determination of aluminium with —. P. S. Roller, **1933**, 780.
 Study of the use of — for the colorimetric determination of aluminium. O. B. Winter, W. E. Thrun and O. D. Bird, **1929**, 680.
- Aurine** in foodstuffs; Detection of —. **1927**, 585.
 in foodstuffs; Identification of —. **1928**, 421, 422.
- Australia, Commonwealth of**: Council for Scientific and Industrial Research. Division of Forest Products Technical Papers. No. 1, Identification of woods by chemical means. Part 1, H. E. Dadswell, **1932**, 101; No. 2, Density of Australian timbers. H. E. Dadswell, **1932**, 102; No. 3, Study of lignin determination. W. E. Cohen and H. E. Dadswell, **1932**, 103; No. 4, by W. E. Cohen, A. L. Balcock and A. G. Charles; and No. 5 by H. E. Dadswell and M. Burnall. The chemical composition of woods of the ironbark group. **1933**, 345.
- Australian Division of Forest Products Reports**: The relation between durability and chemical composition of wood. **1932**, 314.
 dugong oil. **1926**, 150.
 essential oils and their pure constituents; Germicidal values of —. **1927**, 295.
 timbers; Chemistry of —. Part 3, Chemical composition of four pale-coloured woods of the genus *Eucalyptus*. W. E. Cohen, A. G. Charles and A. B. Jamieson, **1934**, 128.
 timber; Chemistry of —. Part 4, Study of the lignin determination. II, W. E. Cohen, **1935**, 474.
- Australian—continued**.
 timbers; Manganese content of some —. W. E. Cohen and A. B. Jamieson, **1933**, 635.
 timbers other than *Eucalypts*; Identification of the principal commercial —. H. E. Dadswell and A. M. Eckersley, **1935**, 616.
- Avgotarachon**: C. Pyriki, **1926**, 198.
- Avocado Oil**: Composition and constants of —. G. S. Jamieson, W. F. Baughman and R. M. Hann, **1928**, 498.
- Avocados**: Vitamin B content of —. L. S. Weatherby and E. W. Waterman, **1928**, 667.
- Azelaic Acid**: Metabolism of —. H. G. Smith, **1934**, 120.
 value of cocoa butter; Determination of —. G. Schuster, **1933**, 763.
 values of palm and illipé butters; Determination of —. G. Schuster, **1934**, 350.
- Azelao-Glycerides** obtained during the oxidation of some simple synthetic and natural glycerides. T. P. Hilditch and S. A. Saletore, **1933**, 485.
- Azetropisme**: La Tension de Vapeur des Mélanges des Liquides (Bibliography). M. Lecat, **1933**, 126.
- Azine Compounds**: Reaction of — with proteolytic enzymes. G. M. Richardson and R. K. Cannan, **1929**, 761.
- Azo** dyestuffs; Indicator properties of dinitro-aniline —. H. Wenker, **1935**, 270.
- Azulenogenic sesquiterpenes**; Colour reaction of —. S. and H. Sabetay, **1934**, 643.

B

- Bacilli**: salmonella group of —; Use of certain carbohydrates and glucosides in the differentiation of members of. F. Wokes and J. H. Irwin, **1927**, 604.
 tubercle-; A simple calculation of the limit of value of the microscopical examination of milk for —. D. R. Wood, **1931**, 179.
- Bacillus Abortus** in the milk of English herds; Investigation of the occurrence of —. D. R. Wood and E. T. Illing, **1931**, 105.
- Bacillus Botulinus**: Food poisoning due to —. **1927**, 122.
- Bacillus Coli**: Action of neon light on —. **1927**, 98.
 Contamination of mineral water with —. (Legal Notes), **1927**, 412.
 Effect of salt on growth of —. **1934**, 413.
 in beer; Viability of —. R. Koch, **1932**, 535.
 in samples of milk; Significance of —. C. H. Chalmers, **1934**, 296.
 in water; Characterisation of —. **1927**, 117.
- Bacillus Lactis Aerogenes** in samples of milk; Significance of —. C. H. Chalmers, **1934**, 296.
- Bacillus Paratyphosus B**: Isolation of — from sewage. J. D. A. Gray, **1929**, 184.
- Bacillus Pneumococcus**: Action of neon light on —. **1927**, 98.
- Bacillus Pyocyaneus**: Action of neon light on —. **1927**, 98.
- Bacillus Tetani** in canned peas; Occurrence of —. F. Marsh and J. Henderson, **1929**, 536.

- B. Tuberculosis** in butter. J. W. Edington, 1934, 766.
- Bacillus Typhosus**: Action of — on milk. C. Gorini, 1926, 641.
Isolation of — from sewage and shell-fish. W. J. Wilson, 1928, 451.
Viability of —. 1929, 291.
- Bacon**: Anti-fly preparations for —. 1933, 758.
Chemical changes in the fat of frozen —. C. H. Lea, 1931, 759.
Cold storage of —. 1933, 227.
Effect of smoking and the influence of atmospheric humidity on the keeping properties of —. C. H. Lea, 1933, 288.
Formaldehyde in —. 1927, 394.
Gas storage of —. Part I, E. H. Callow, 1932, 384.
Nitrite in —. 1928, 598.
Transport of frozen —. 1929, 35.
- Bacteria**: Acido-protolytic — in pasteurised milk. C. Gorini, 1931, 127.
Action of neon light on —. A. Philibert and J. Risler, 1927, 97.
aerobic non-sporulating — producing gas from lactose; Significance in oysters and water of. C. A. Perry, 1930, 58.
agar-liquefying —; Distribution of. H. Nicol, 1932, 189.
Anaerobic — causing black-rot in eggs. R. M. Bohart, 1930, 206.
Carbon monoxide poisoning of — in absence of haemoglobin. 1927, 295.
causing ropiness in bread. 1931, 572.
Effect of — on the spoilage of fish. 1931, 533.
Effect of ozone on growth of —. 1934, 697.
Fermentation of cellulose by thermophilic —. Y. Tomoda, 1933, 105.
Fermentation of rare sugars by members of the colon-aerogenes groups of —. I. Trehalose. C. F. Poe and J. T. Field, 1933, 106.
found in unwashed milk bottles; Effect of alkali solutions on —. C. S. Mudge and B. M. Lawler, 1928, 394.
in commercial milk. 1931, 658.
in fish. 1934, 699.
in fish muscle; Effect of exposure to low temperatures on the number of —. M. M. Stewart, 1934, 711.
in milk; Anaerobic spore-bearing —. E. A. Bliss, 1926, 589.
in milk; Thermophilic —. M. O. Eckford, 1927, 426.
Inter-relationships of plankton and — in natural purification of polluted water. C. T. Butterfield and W. C. Purdy, 1931, 330.
Intestinal — isolated from packed dates. R. F. Hunwicke and G. N. Grinling, 1928, 395.
lactic acid produced by pure and mixed cultures of —; Forms of. C. S. Pederson, W. H. Peterson and E. B. Fred, 1926, 361.
Minimum temperatures of growth of —. 1934, 697.
on fruit. J. T. Smeall, 1933, 48.
- Bacteria—continued.**
Pathogenic — and mixed enzymes of milk. C. Gorini, 1927, 486.
Salt tolerance of —. 1935, 177.
Sulphur —. (Review), D. Ellis, 1932, 679.
Sulphur — as indicators in the investigation of polluted water; Use of. D. Ellis, 1926, 530.
Thermophilic — in milk. M. I. Christian, 1931, 411.
Thermophilic — in refined cane sugars. W. L. Owen and R. L. Mobley, 1932, 732.
Utilisation of Yeasts, Molds and — in Industrial Processes. (Review), H. F. Smyth and W. L. Obold, 1931, 423.
- Bacterial activity in milk**; Stimulation of —. C. Gorini, 1926, 530.
contamination of milk. 1926, 245.
count of whole milk in relation to that of cream and skim milk separated from it. C. S. Leete, 1926, 208.
cultures; Quantitative determination of indole in —. H. B. Pierce and R. B. Kilborn, 1929, 251.
flora of eggs; Effect of dehydration on the —. G. G. De Bord, 1926, 98.
flora of the market oyster. C. Eliot, 1927, 98.
flora; Studies of commercial sauerkraut, with special reference to changes in — during fermentation at low temperatures. L. A. Priem, W. H. Peterson and E. B. Fred, 1927, 356.
growth; Chemical inhibitors of —. 1934, 176.
growth; Effect of carbon dioxide on —, with special reference to the preservation of fish. Part I, F. P. Coyne, 1932, 399.
growth-promoting factor with vitamin B₁; Identity of a —. J. G. Davis and J. Golding, 1931, 56.
Metabolism. (Monographs on biochemistry). (Review), M. Stephenson, 1930, 355.
metabolism; Pyruvic acid in —. R. P. Cook, 1931, 57.
nutrition; Studies in —. III, Phosphates and the growth of streptococci. H. R. Whitehead, 1927, 243.
spoilage of meat. 1934, 175.
- Bactericidal action of dyes.** A. Philibert and J. Risler, 1928, 450.
action of selenium and tellurium compounds. N. M. Strover and B. S. Hopkins, 1927, 356.
action of the nitroso compounds. E. A. Cooper and R. B. Haines, 1929, 357.
efficiency of menthol and camphor. L. Ger-shenfeld and R. E. Miller, 1934, 55.
properties of silver chlorides. J. Dekker and C. H. Dekker-Koers, 1933, 357.
- Bacteriological Equivalents**; Dictionary of —. (Review), W. Partridge, 1928, 66.
examination of food and water; Recent advances in —. W. G. Savage, 1927, 117.
Examination of Foods; Methods of —. (Review), W. Gaebtgens, 1926, 377.
examination of shell-fish. 1929, 159.
examination of water —. E. Voelcker, 1934, 816.
Examination of Water. 6th Ed. (Review). W. P. Mason, 1932, 277

- Bacteriological**—*continued*.
standards for bottled new milk and sterilised milk. **1931**, 600.
study of ham souring. E. A. Boyer, **1927**, 98.
Technique. 3rd Ed. (Review), J. W. H. Eyre, **1931**, 772.
Technique; Essentials of —. (Review), R. F. Hunwicke, **1932**, 600.
test for pasteurised food: The heat resistance curve. C. Duke, **1930**, 14.
tests for graded milk. Ministry of Health Report. **1929**, 235.
- Bacteriology**: Chemical problems of —. **1935**, 247.
- Dairy —. (Review), B. W. Hammer, **1929**, 442.
Dairy —. 2nd Ed. (Review), Orla-Jensen, **1931**, 775.
of wheat and flour; Preliminary studies in —. D. W. Kent-Jones and A. J. Amos, **1930**, 248. Erratum, **1930**, 358.
Practical —. A. Cunningham, **1934**, 728; 2nd Ed., **1935**, 280.
Practical —. (Review), F. W. Tanner, **1929**, 375.
(Review), F. W. Tanner, **1929**, 688.
Water —; Elements of. 5th Ed. (Review), S. C. Prescott and C. A. Winslow, **1931**, 347.
- Bacteriophage**: Experimental researches on the nature of the —. C. Prausnitz, **1927**, 615.
- Bacterium**: New autotrophic — which oxidises ammonia directly to nitrate and decomposes petroleum. C. B. Lipman and L. Greenberg, **1932**, 263.
- Bacterium C**: Standardisation of the strength of — used in the Chapman biological method for determining the preservative power of hops. A. Chaston Chapman, **1930**, 57.
- Bacterium Pruni** in milk; Identification of some of the products formed by —. S. L. Jodidi, **1927**, 486.
Production of certain enzymes by —. S. L. Jodidi, **1927**, 722.
- Baden wines**; Composition of —. E. Remy and F. Richter, **1930**, 282.
- Bael Fruit Trees**: Seed oil of — (*Aegle marmelos* Corr.). R. Child, **1935**, 257.
- Bake-apple Berry**: **1930**, 129.
- Baker's Itch**: (Parliamentary Notes), **1926**, 244.
- Baking Powder**: Arsenic in —. (Legal Notes), **1928**, 492.
carbon dioxide in —; Available. (Legal Notes), **1928**, 155.
carbon dioxide in —; Determination of "available" and "total." F. W. Edwards, E. B. Parkes and H. R. Nanji, **1935**, 814.
carbon dioxide in —; Direct determination of available. M. R. Coe, **1931**, 327.
Egg —. Alleged false label. (Legal Notes), **1932**, 460.
Impurity in —. **1926**, 626.
Standard for —. (Legal Notes), **1927**, 706.
tartaric acid in —; Colorimetric determination of. **1932**, 587.
- Bakteriologischen** Untersuchungen von Nahrungsmitteln; Methoden der —. (Review), W. Gaehgtens, **1926**, 377.
- Balance**: Analytical — without rider. A. Wirth, **1926**, 482.
- Balance**—*continued*.
Guichard's hydrostatic compensation —. **1926**, 596.
Use of the air-damped — for determining total solids in milk. J. Golding, **1934**, 468.
- Balanites** oil seeds. **1931**, 188.
- Baljet's Reagent** for the quantitative colorimetric determination of *Digitalis* glucosides. J. A. C. Van Pinxteren, **1932**, 179.
- Balsams**: Assay of official —. T. T. Cocking, **1931**, 673; **1932**, 45.
- Bamboo Hairs** as poison. **1933**, 160.
- Banana**, flour. E. A. Ullán, **1926**, 634.
seeds; Occurrence of crystalline globulin in —. G. L. Keenan and J. D. Wildman, **1930**, 637.
vinegar. Preparation of —. H. Von Loesecke, **1929**, 348.
- Bananas**: Quantitative changes in the chloroplast pigments in the peel of — during ripening. H. von Loesecke, **1929**, 611.
Wastage in imported —. **1930**, 634.
- Banbury**: Appointment of E. Voelcker as Public Analyst for Borough of —. **1932**, 163.
- Bandrowski's Base**: Action of acid on —. H. E. Cox and J. U. Lewin, **1935**, 350.
- Bang** in the milk of English herds; Investigation of the occurrence of —. D. R. Wood and E. T. Illing, **1931**, 105.
- Banisterine**: A new narcotic and medicament. L. Lewin, **1928**, 389.
- Banisterine Hydrochloride**: **1931**, 419.
- Bank Notes** and cholera. H. M. Jettmar, **1928**, 51.
Charred —. **1929**, 289.
- Barbital**: Titration of — with silver nitrate by the method of H. Budde. J. M. A. Hegland, **1935**, 259.
Toxicological detection and isolation of —. J. J. L. Zwikker, **1931**, 758.
- Barbitone** group; Scheduling of veronal and the —. (Dangerous Drugs Act), **1926**, 248.
- Barbiturates** in blood; Rapid method for identifying —. P. Chéramy and R. Lobo, **1935**, 52.
in urine; Identification of —. M. Fauchet, **1935**, 51.
- Barbituric** alkaloids; Micro-crystallographic identification of —. G. Denigès, **1931**, 689.
principles in urine; Identification and determination of —. M. Paget and C. Desodt, **1933**, 772.
- Barbituric Acid** compounds; Microchemical identification of some —. L. van Itallie and A. J. Steenhauer, **1931**, 136.
compounds; Microscopic detection of —. L. van Itallie and A. J. Steenhauer, **1930**, 717.
derivatives; Extraction of — from viscera by means of acetone. P. Chéramy and R. Lobo, **1935**, 50.
- Barium** as a normal constituent of Brazil nuts. W. M. Seaber, **1933**, 575.
Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.
Detection and determination of calcium, strontium and —. O. Macchia, **1928**, 353.

Barium—continued.

- Detection of — in systematic qualitative analysis. J. and H. Brintzinger, **1933**, 715.
- Determination of strontium and —. L. Szebellédy, **1929**, 682.
- Differentiation from calcium and strontium. **1934**, 776.
- lead alloyed with —; Analysis of. **1933**, 460.
- Microchemical test for — with sodium tungstate. G. Denigès, **1930**, 156.
- Micro-separation of calcium and —. R. Strebinger, **1930**, 298.
- poisoning. **1934**, 541.
- Rhodizonic acid as an indicator in the volumetric determination of —. A. Friedrich and S. Rapoport, **1934**, 439.
- Separation of beryllium from —. **1929**, 367.
- Separation of radium and mesothorium I from — by ionic migration. J. Kendall, E. R. Jette and W. West, **1927**, 106.
- values of butter-fats of different animals. H. Atkinson, **1934**, 481.
- Volumetric method for determining —. J. C. Giblin, **1933**, 752.
- Barium Carbonate** in animal poisoning. **1932**, 100.
- Barium Chloride**: Volumetric determination of sulphates by means of potassium stearate and —. H. Atkinson, **1926**, 81.
- Barium Chromate**: Fractional precipitation of radium and —. L. M. Henderson and F. C. Kracek, **1927**, 303.
- Barium Ion**: Micro-titration of chromic ion and —. R. F. le Guyon, **1927**, 365.
- Barium Oxalate**: J. Haslam, **1935**, 668.
- Barium Salts**: Conversion of higher fatty acids into their —. H. H. Escher, **1929**, 252.
- Barium Sulphate** as indicator of the efficiency of sulphuric acid in drying apparatus. G. Boehm, **1929**, 373.
- Determination of the sulphate ion by precipitation as —. J. N. Friend and W. N. Wheat, **1932**, 559.
- for X-ray work. **1928**, 92.
- Influence of citrates on the precipitation of —. M. L. Nichols and O. J. Thies, Junr., **1926**, 216.
- losses in gravimetric determination. H. R. Jensen, **1928**, 136.
- Microchemical test for —. **1934**, 721.
- Use of — for clarifying soil suspensions, with particular reference to colorimetric pH determinations. L. D. Baver and C. J. Rehling, **1930**, 645.
- Barium Values** of fats and oils; New method of determining —. W. L. Davies, **1928**, 172.
- Barley** analysis; Merck's diastase, a proposal for —. W. Piratzky, **1934**, 418.
- "Commercially pure —, as grown." (Legal Notes), **1930**, 687.
- diastase method for starch in cereal products, **1931**, 185.
- Faced pearl —. **1931**, 455, 741.
- flour in rye and wheat flours; Detection of —. P. Rudolph and H. Barsch, **1932**, 177.

Barley—continued.

- formula; Prediction of the extract of malt by Bishop's —. W. J. Mitchell, **1932**, 464.
- germs; Essential oil from —. **1931**, 257.
- Iodine absorption value of —. **1927**, 89.
- malt; Study of the concentration and properties of two amylases of —. M. L. Caldwell and S. E. Doebbeling, **1935**, 712.
- Manganese in —. **1929**, 348.
- Pearl —. See **Pearl Barley**.
- plant; Non-volatile organic acids in —. E. K. Nelson and H. H. Mottern, **1931**, 672.
- preparations; Analyses of —. **1931**, 535.
- substitutes for coffee; Distinction between malt and —. H. Barsch, **1933**, 350.
- Vitamin A content of —. E. H. Hughes, **1934**, 121.
- Barrow-in-Furness**: Appointment of Miss M. Roberts as Additional Public Analyst for —. **1933**, 533.
- Barytes** in cheese. (Legal Notes), **1930**, 194.
- Basic Acetate** method for beryllium. **1932**, 271.
- Basic Slag**: fluorine in —; Determination of. R. G. Warren, C. T. Gimmingham and H. J. Page, **1926**, 101.
- New method of evaluating —. E. Vanstone, **1926**, 47.
- Basicity**: Revision of words denoting —. **1926**, 193, 195.
- Basil**: Microscopical examination of —. **1934**, 744.
- Volatile oil determined in —. **1934**, 617.
- Basking Shark**: Liver oil of —. M. Tsujimoto, **1935**, 489.
- New hydrocarbon in liver oil of —. M. Tsujimoto, **1935**, 490.
- Bassia Latifolia** fat. D. R. Dhingra, G. L. Seth and P. C. Speers, **1933**, 350.
- Bath waters**; Chlorine in —. **1934**, 623.
- Bath Salts**: Misdescription of —. (Legal Notes), **1932**, 574.
- Baths**: Thermo-regulator for heating and cooling —. A. E. Bradfield, **1935**, 202.
- Bats**: Campaign against vampire —. **1935**, 825.
- Batteries**: Acid for submarine —. **1930**, 755.
- Manganese ore and dry cell —. **1934**, 347.
- Battery acids**. **1933**, 405.
- Baumé** Gravity Tables for Turpentine. W. P. Smith and F. P. Veitch, **1930**, 604.
- hydrometer readings; Temperature corrections of —. C. F. Snyder, **1926**, 427.
- Bay Oil**: Glycerides of —. **1928**, 603.
- Bay Tree**: Capric acid from the seed fat of the California —. C. R. Noller, I. J. Miller and J. J. Gordon, **1933**, 299.
- Bayley's Chemists' Pocket Book**. 9th Ed. (Review), R. Ensoll, **1929**, 495.
- B.D.H.** Book of Standards. (Review), **1926**, 373.
- Beam's Colour Test** for hashish. A. Lucas, **1933**, 602.
- Bean meal**; Iodine absorption value of —. **1927**, 89.
- velvet —; Water-soluble vitamin content of. W. D. Salmon and E. R. Miller, **1926**, 260.
- Beans**: Agricultural Produce (Grading and Marking) (—) Regulations. **1931**, 108.

- Beauty Clays**; Composition of —. 1926, 89.
- Bedford**: Appointment of A. J. C. Lickorish as Public Analyst for County of —. 1932, 629.
- Beech** coccus; Wax of the felted —. B. L. Blount, 1935, 425.
- Beech-Wood** charcoal dust; Spontaneous ignition of —. E. Möhlau, 1932, 675.
- Beef**: Agricultural Produce (Grading and Marking). (—) Regulations, 1929, 1930, 45. Antineuritic and water-soluble *B* vitamins in pork and —. R. Hoagland, 1929, 432. Chilled —; Chemical changes in fat of. C. H. Lea, 1931, 610. chilled —; Transport of. 1929, 35. Effect of short periods of cold storage on mutton and —. W. M. Clifford, 1926, 303. extract as a source of vitamin C. R. Hoagland and G. G. Snider, 1930, 593. fat; Colour of —. 1934, 697. fat; Detection of hardened fat in — from the iodine value of the solid fatty acids separated by Twitchell's method. S. C. L. Gerritzen and M. Kauffman, 1928, 44. fat; Fatty acids of —. 1932, 112. Freezing of —. 1927, 541. Grading and Marketing Regulations. 1930, 45. liver; Neutral fat of —. W. R. Bloor and R. H. Snider, 1930, 518. Manganese content of —. G. Büttner and A. Miermeister, 1933, 615. plasma; Concentrations of certain constituents in normal —. C. S. Robinson and C. F. Huffman, 1926, 257. suet; Labelling of —. 1930, 388; 1931, 313, 740. suet; Shredded —. 1929, 539. Taint production in fat of chilled —. C. H. Lea, 1935, 107. tallow; Barium value of —. 1928, 173. tallows; Glyceride structure of —. A. Banks and T. P. Hilditch, 1931, 816. Vital organs of —. Distribution of unsaturated fatty acids in tissues. W. R. Bloor, 1929, 112.
- Beer**: Bibliography of standard methods of analysing —. 1927, 235. Black —. 1932, 714. Carbon dioxide determined in —. J. L. Baker and H. F. E. Hulton, 1934, 419. Chemical and physical properties of bright lager —. E. Remy, 1930, 518. Dutch regulations for —. 1932, 21. Hop — in Fiji. 1934, 177. Imitation —. 1933, 33. Iron in — determined by means of *aa'*-dipyridyl. G. Bode, 1934, 116. Misdescription of articles as spirits or —. Finance Act, 1932. 1932, 577. *pH* value of —; Colorimetric estimation of. P. Kolbach, 1932, 465. Preservation of —. R. de Fazi, 1930, 137. saccharin content of —; Determination of. J. E. Heesterman, 1932, 323. saccharin in —; Detection of. V. Stanék and P. Pavlas, 1934, 704.
- Beer**—*continued*.
sucrose in —; Determination of. II. J. Fiehe, 1932, 254. Sulphur dioxide in —. N.C.B., 1927, 717. Vitamin content of —. A. Scheunert and M. Schieblich, 1927, 722.
- Bees**: Toxicity of pyrethrum vapours to honey —. J. M. Ginsburg, 1930, 596. Utilisation of carbohydrates by honey —. E. F. Phillips, 1928, 46; by larvae of honey —. L. M. Bertholf, 1928, 47.
- Beeswax**: Behaviour of — towards trichlorethylene at ordinary temperature. G. Buehner, 1928, 397. Bulgarian honey and —. J. Zoneff, 1927, 598. Colouring matter of — and composition of propolis. G. F. Jaxbert, 1927, 418. Data used in graph for —. A. A. Weir, 1926, 181; M. S. Salamon, 1926, 293. Japanese — Investigation of. H. Ikuta, 1931, 430. II, Composition of free and combined fatty acids. H. Ikuta, 1933, 635. III, Composition of hydroxy fatty acid. H. Ikuta, 1934, 161. Solubility of —. J. J. Deeney, 1932, 256.
- Beet** odour and taste in milk and butter; Cause of —. P. Post, 1931, 402. sugar —; Power alcohol production from. (Report to Minister of Agriculture), 1926, 463.
- Beet Sugar** factories effluent. 1930, 510; 1931, 107; 1933, 282; 1934, 282, 283. in canning. 1935, 695.
- Beetles**: Protection of animal fibres against clothes moths and dermestid —. C. O. Clarke, 1929, 126.
- Beilstein's** Handbuch der Organischen Chemie; A Brief Introduction to the Use of —. (Review), E. H. Huntress, 1931, 842.
- Belgian Congo**: Palm oil from —. G. S. Jamieson and R. S. McKinney, 1929, 476.
- Beli Tree**: Seed oil — (*Aegle marmelos* Corr.). R. Child, 1935, 257.
- Bell's** Sale of Food and Drugs Acts. 8th Ed. (Review), R. A. Robinson, 1931, 420. Error on page 211 of —. 1931, 807.
- Belladonna** root; Alkaloid content of —. J. J. Blackie, 1926, 202.
- Benedict's** alkaline copper solution; Observations upon —. (Determination of sugar in blood.) M. R. Everett, 1929, 430. method for sugar in blood and cerebrospinal fluid; Comparison of the Folin-Wu and the new —. J. D. Lyttle and J. E. Hearn, 1926, 466. solution; Use of — in the micro-detection of sugar in urine and other solutions. H. Tauber, 1934, 648.
- Bentonite**: Removal of colloids from honey by —. R. E. Lothrop and H. S. Paine, 1931, 402.
- Benzaldehyde**: chlorine in commercial —; Determination of small quantities of. C. G. Daubney, 1935, 29. 2, 4-Dinitrophenylhydrazine as quantitative reagent for —. R. E. Houghton, 1934, 363. Methone as reagent for —. 1929, 486.

- Benzene**: Absorption curve of —. 1935, 9.
 Carbon disulphide in —; Determination of T. Callan, J. A. R. Henderson and N. Strafford, 1932, 590.
 Derivatives; Synthesis of —. (Review), S. C. Bates, 1926, 430.
 Determination of — in toxicology. I, Preliminary study of the colorimetric determination of *m*-dinitrobenzene. M. Péronnet, 1934, 711.
 in ethyl alcohol; Detection of —. 1927, 101.
 Microchemical colour reaction of *m*-dinitrobenzene for the forensic detection of —. J. Peltzer, 1933, 297.
 poisoning. 1929, 600.
 Solubility of vitamin B in —. R. R. Williams and R. E. Waterman, 1926, 470.
 solution; Analytical reactions of alkyl mercaptans in —. J. R. Sampey and E. E. Reid, 1932, 665.
 sulphur in —; Determination of. H. A. J. Pieters, J. Van Iterson and S. J. H. Spronck, 1934, 127.
 vapour in the air; Determination of —. M. Péronnet and R. Truhaut, 1934, 431.
 Works; Report on —. 1933, 537.
- Benzenometer**: W. Vaubel, 1930, 225.
- Benzidine** as a reagent for living plants. C. Ruppert, 1926, 259.
 as a reagent in analysis. R. G. Harry and E. A. Rudge, 1932, 334.
 colour reaction of Japanese acid clay. N. Kameyama and S. Oka, 1929, 562.
 method of determining sulphate in wine. E. Lobstein and M. Ancel, 1933, 700.
 Purification of —, and an improved reagent for determining haemoglobin in blood. F. C. Bing, 1932, 329.
 Quantitative determination of aromatic aldehydes by titration with a solution of —. P. N. Van Eck, 1928, 174.
 Reaction of — with nitrous acid. 1927, 492.
 solution; Detection of Japanese acid clay by the colour reaction of —. K. Kobayashi and H. Ishikawa, 1935, 720.
 solution; Volumetric determination of sulphate by the use of —. S. Snyder, 1932, 61.
 Spot test for —. 1933, 372.
 test for acetic acid. 1935, 47.
 Volumetric — method for determining acetic acid (acetate radicle) in lead acetate. J. E. S. Han and T. L. Chu, 1931, 830.
- Benzidine Sulphate**: micro-determination of sulphur as —; Use of Jena glass filters in. R. Guillemet, 1933, 248.
- Benzils**: Reduction of aromatic ketones and — by triphenylmagnesium bromide. E. W. Bachmann, 1931, 683.
- Benzoate** method for precipitating iron, aluminium and chromium. I. M. Kolthoff, V. A. Stenger and B. Moscovitz, 1934, 435.
 method for separating iron, aluminium and chromium; Application of — in qualitative analysis. L. Lehrman and J. Kramer, 1935, 197.
- Benzoated** lard. 1927, 79.
- Benzocaine**: New colour reaction for —. 1927, 41.
- Benzoflavine** as fluorescence indicator. 1933, 722.
- Benzoic Acid** as a standard for the standardisation of combustion calorimeters. P. E. Verkade, 1929, 124.
p-Chlorobenzoic acid in presence of —; Detection of. F. Weiss, 1934, 196.
 Conversion of benzoyl peroxide into —. 1933, 5.
 Detection and determination of —. J. C. Harral, 1930, 445.
 Detection of —. A. N. Leather, 1931, 299.
 Detection of — as methyl ester. L. Pick, 1931, 466.
 Determination of small quantities of cinnamic and —, with notes on the colorimetric determination of salicylic acid. J. R. Nicholls, 1928, 19.
 Elimination of — as hippuric acid in rabbits. W. H. Griffith, 1926, 528.
 Extraction of — from food products. 1928, 27.
 in egg-yolk; Determination of —. E. Waltzinger, 1927, 90.
 in food and drugs; Microchemical tests for —. R. Fischer and F. Stauder, 1931, 275.
 in foodstuffs; Determination of —. G. W. Monier-Williams, 1927, 237, 572. Public Health Report, No. 39. G. W. Monier-Williams, 1927, 153, 229.
 Micro-reaction for —. 1931, 303.
 Mohler's test for —. I, Investigation of Grossfeld's modification of the test. E. T. Illing, 1932, 224. II, Application of the test to the detection and determination of — in foodstuffs. E. T. Illing, 1932, 226.
 Oxidation of — with hydrogen peroxide. 1928, 22.
 Production of salicylic acid from —. 1928, 19.
 Relative effectiveness of — as disinfectant. 1926, 259.
 Volatility of —. A. F. Lerrigo, 1926, 405.
- Benzoïn**: Compound tincture of —. T. T. Cocking, 1929, 46.
- α -Benzoinoxime**: Use of — in the determination of molybdenum. H. B. Knowles, 1932, 799.
- Benzol**: Relative toxicity of — and its higher homologues. J. J. Batchelor, 1927, 426.
 Removal of carbon disulphide from —. 1927, 625.
- o*-Benzoquinone** test for cysteine. W. C. Hess and M. X. Sullivan, 1933, 104.
- Benzoyl Acrylic Acid**: Sensitive reaction for — and its use for characterising phenols. E. Cattelain, 1927, 360.
- Benzoyl Auramine G**: A new indicator for Kjeldahl determinations. J. T. Scanlan and J. D. Reid, 1935, 339.
- Benzoyl Methylglyoxime** as a precipitant for palladium. J. Hanus, A. Jilek, and J. Lukas, 1926, 109.
- Benzoyl Peroxide** in flour; Determination of —. J. R. Nicholls, 1933, 4.
- Benzoylation** in tetrahydronaphthalene solution at high temperatures as means of determining hydroxyl groups in alcohols and phenols. T. M. Meijer, 1934, 362.

- Benzyl Alcohol**: Determination of small quantities of —. J. Callaway and S. Reznik, 1933, 494.
- Benzyllic Potassium Hydroxide**: Use of — for determining acetyl groups in substituted acetamides. S. Sabetay and J. Sivadjian, 1931, 475.
- Benzylidenesorbitol**: Reif's colour reaction for detecting —. H. Kreipe, 1934, 420.
- Berberine**: Microchemical test for —. 1934, 137.
Microchemistry of —. M. Wagenaar, 1930, 222.
- Bergamot Oil** as anti-ferment. 1928, 612.
- Bergeim's Method** for determining the digestibility of protein. W. D. Gallup, 1929, 247.
- Berberi** and rice "toxin." 1929, 291.
Anti-vitamin. *See* vitamin.
preventing rice; Standard for —. E. B. Vedder and R. T. Feliciano, 1928, 542.
Vitamin B extract for treatment of —. 1927, 158.
- Berkshire**: Appointment of J. Thompson as Public Analyst for County of —. 1932, 518.
Appointment of E. Voelcker as Deputy Agricultural Analyst for —. 1930, 566.
- Berthelot Centenary**: Address presented by the Society of Public Analysts. 1927, 620.
- Beryl**: Analysis of Japanese —. T. Uemura, 1928, 674.
- Beryllium**: Analytical chemistry of —. (a) L. Moser and M. Niessner. (b) L. Moser and J. Singer, 1928, 401; Part II, L. Moser and F. List, 1929, 366. *See also* list of Errata.
Atomic weight of —. 1928, 160; 1929, 295; 1934, 547.
Detection and determination of —. H. Fischer, 1928, 303.
Detection of traces of — and colorimetric determination of this element. I. M. Kolthoff, 1928, 238.
Determination of —. L. Fresenius and M. Frommes, 1932, 270; 1933, 567.
in alloy steels; Determination of —. H. Eckstein, 1932, 270.
in aluminium; Determination of —. H. V. Churchill, R. W. Bridges and M. F. Lee, 1931, 65.
in complex fluoride solution; Volumetric determination of silicon and —. J. A. Tschernichow and E. J. Guldina, 1935, 638.
in presence of fluorine; Volumetric determination of —. V. M. Zwenigorodskaja and A. A. Gaigerowa, 1934, 645.
in rocks; Detection of —. G. Rienäcker, 1932, 405.
in rocks; Determination of small quantities of —. B. E. Dixon, 1929, 268.
in steel; Determination of —. F. Spindeck, 1930, 347.
New spot test for —. A. S. Komarowsky and N. S. Poluektoff, 1934, 575.
New volumetric method for determining —. B. S. Evans, 1935, 291.
Preparation of pure —. 1930, 514.
Reaction of "aluminon" with hydroxides of rare earths, zirconium, thorium and —. A. R. Middleton, 1926, 537.
- Beryllium**—*continued*.
Separation of — from aluminium and iron by means of hydroxyquinoline. V. M. Zwenigorodskaja and T. N. Smirnowa, 1934, 645.
Separation of — from aluminium by guanidine carbonate. A. Jilek and J. Kota, 1932, 406.
Separation of — from aluminium by hydroxyquinoline. I. M. Kolthoff and E. B. Sandell, 1928, 508.
Separation of — from aluminium, iron and copper by *o*-hydroxyquinoline. M. Niessner, 1929, 434.
Separation of — from other elements by guanidine carbonate. A. Jilek and J. Kota, 1932, 799.
Separation of aluminium from —. A. Travers and Schnoutka, 1931, 273.
Separation of titanium from —. 1929, 269.
Use of 8-hydroxyquinoline in the determination of —. H. B. Knowles, 1935, 777.
- Beryllium Oxide**: Different states of —. H. Copaux and C. Matignon, 1926, 107.
- Berzelius** method of determining alkalis modified. 1929, 225.
- Betaine** in wheat bran; Occurrence of —. F. E. Nottbohm and Mayer, 1935, 622.
- Betel** leaves; Aseptosol: A new antiseptic phenol from —. J. McLang, 1926, 356.
nut; Manganese in —. 1929, 348.
poisoning. 1934, 38.
- Beverages**: Caffeine in cereal —. C. J. La Wall and J. W. E. Harrison, 1932, 786.
Carbonated —. 1932, 168.
copper and lead in —; Determination of minute amounts of. F. W. Richardson, 1930, 323.
Illicit —. R. T. Feliciano, 1926, 415.
iso-propyl alcohol in alcoholic —; Determination of. E. Alessandrini, 1934, 630.
methyl alcohol in alcoholic —; Detection of. F. R. Georgia and R. Morales, 1926, 252.
Oxygen-consuming phenomena in —. J. H. Toulouse, 1934, 703.
saccharin content of —; Determination of. J. E. Heesterman, 1932, 323.
saccharin in —; Detection of. V. Stanék and P. Pavlas, 1934, 704.
saponin in —; Use of. 1932, 98.
- Bezssonoff's** reaction for determining vitamins. F. V. von Hahn and M. Wieben, 1932, 534.
reagent; Use of — for detecting vitamin C in Baden wines. E. Remy and F. Richter, 1930, 282.
- Biazzo** reagent for copper in organic matter, 1931, 685.
- Bibliographies**: Heavy metals in food and biological material. T. H. Pope. I, Copper 1932, 709. II, Lead, 1932, 775. III, Zinc, 1933, 30. IV, Manganese, 1933, 91. V, Mercury, 1933, 280. VI, Cobalt, 1933, 340. VII, Nickel, 1933, 340. VIII, Chromium, 1933, 341. IX, Tif, 1933, 398. X, Bismuth, 1933, 607. XI, Antimony, 1934, 109. XII, Cadmium, 1934, 109. XIII, Thallium, 1934, 109.

Bibliographies—continued.

- Standard Methods of Analysis. I, Leather and Tanning Materials, 1927, 83. II, Beer and Brewing Materials, 1927, 235. III, Petroleum and Petroleum Products, 1927, 347.
- Bifluorides**: Analysis of ——. E. C. Roper and E. B. R. Prideaux, 1926, 370.
- Biguanide**: Determination of ——. C. D. Garby, 1926, 533.
- Bihar and Orissa**: Report of Chemical Analyst for — for 1929. K. N. Bagchi, 1930, 393; for 1930, J. C. Das, 1931, 400.
Report of Public Analyst for Mining, Settlements of — for 1929. B. K. Mandal, 1930, 632.
- Bikukulla Formosa**: Toxicity of ——. O. F. Black, W. W. Eggleston and J. W. Kelly, 1930, 525.
- Bilberry juice**; Detection of — by means of Pfahl's reaction modified for use with sweet wines. R. Ofner, 1931, 672.
juice in red wine; Detection of ——. W. Diemair, 1932, 320.
juice: Refractometric investigation of ——. 1926, 41.
juice: Refractometric studies on ——. 1931, 461.
- Bile Acids** determined quantitatively by means of a new colour reaction and mono-chromatic light. R. Gregory and T. A. Pascoe, 1929, 554.
in the blood; Quantitative Pettenkofer test applicable to the determination of ——. M. Aldrich and M. S. Bledso, 1928, 391.
- Bilibol**: 1928, 660.
- Bilirubin**: Isolation and detection of ——. C. E. May, R. Martindale and W. F. Boyd, 1934, 291.
- Bio-Assay of drugs**. J. C. Munch, 1926, 42.
- Bioassays**: A Handbook of Quantitative Pharmacology. (Review), J. C. Munch, 1931, 490.
- Biochemical classification of the gums**. A. G. Norman, 1929, 549.
determination of allantoin in the presence of urea. R. Fosse, A. Brunel and P. de Graeve, 1929, 479; in urine, 1929, 479.
Laboratory Methods for Students of the Biological Sciences. (Review), C. A. Morrow, 1928, 357; 1935, 504.
relations of phenols. II, Effect of hydroquinone on the vitamin A content of stored oils. R. C. Huston, H. D. Lightbody and C. D. Ball, Junr., 1928, 665.
studies on purified cholesterol. C. E. Bills, E. M. Honeywell and W. A. MacNair, 1928, 169.
- Biochemistry and Organic Chemistry**. 5th Ed. (Review), R. H. A. Plimmer, 1934, 68.
Cholesteryl allophosphate and its use in ——. R. Fabre, 1927, 163.
Course in Practical ——. A. T. Cameron and F. T. White, 1930, 232.
Fundamentals of ——. (Review), T. R. Parsons, 1934, 373.
Introduction to ——. (Review), W. R. Fearon, 1934, 372; R. J. Williams, 1932, 481.

Biochemistry—continued.

- Lectures on certain aspects of ——. J. C. Drummond, A. V. Hill, H. H. Dale and L. J. Henderson. (Review), 1926, 431.
Manual of ——. (Review), J. F. McClendon, 1934, 851.
- Monographs on ——. Alcoholic Fermentation. (Review), A. Harden, 1932, 546. Bacterial Metabolism. (Review), M. Stephenson, 1930, 355. Enzymes. (Review), J. B. S. Haldane, 1931, 343.
- of aluminium. I, Excretion and absorption of aluminium in the pig. K. Mackenzie, 1931, 54. II, Excretion and absorption of aluminium in the rat. K. Mackenzie, 1931, 470.
of dry rot in wood. E. C. Barton-Wright and J. G. Boswell, 1929, 358.
of Muscle. (Review), D. M. Needham, 1932, 279.
- Outlines of ——. (Review), R. A. Gortner, 1930, 227.
Plant —; Introduction to. (Review), C. C. Steele, 1934, 855.
Plant —; Practical. (Review), M. W. Onslow, 1929, 774.
Plant —; Principles of. Part 1. (Review), M. W. Onslow, 1931, 346.
Practical Organic and ——. (Review), R. H. A. Plimmer, 1927, 107.
Recent Advances in ——. (Review), J. Pryde, 1927, 58.
Textbook of — for Students of Medicine and Science. (Review), A. T. Cameron, 1928, 358; 2nd Ed., 1930, 232.
- Biological assay of cod-liver oil**. G. Adams and E. V. McCollum, 1928, 506.
assay of vitamin A; Influence of the solvent on ——. K. C. Lathbury and G. N. Greenwood, 1935, 195.
assays; Comparison of colorimetric and — for vitamin A as applied to fish oils. E. R. Norris and I. S. Danielson, 1929, 612.
Chemical Nomenclature; Commission for the Reform of ——. 1928, 656.
determination of vitamin C. H. Lund, B. Spur and L. S. Fridericia, 1935, 112.
estimations of vitamins; Accuracy of ——. K. H. Coward, 1934, 681.
fluids; Analysis of albumin and globulin in — by the quantitative precipitin method. E. Goettsch and F. E. Kendall, 1935, 422.
fluids; Colorimetric method for quantitative determination of nitrates and nitrites in ——. M. Whelan, 1930, 337.
fluids; Iron and thorium precipitation of — for sugar and other analyses. A. Steiner, F. Urban and E. S. West, 1933, 46.
fluids; Simple adaptation of Kolthoff's colorimetric method for determining magnesium in ——. A. D. Hirschfelder and E. R. Serles, 1934, 423.
fluids; Spectrographic analysis of ——. 1935, 14.
inertness of irradiated mycosterols other than ergosterol. O. Rosenheim and T. A. Webster, 1929, 248.

Biological—continued.

liquids; Colorimetric method for determining sulphur and sulphate in —, K. Lang, **1930**, 203.

liquids; Determination of acetone in —, R. Gros, **1934**, 362.

material; Application of the uranyl zinc acetate method of determining sodium in —, A. M. Butler and E. Tuthill, **1931**, 764.

material; Bibliography on heavy metals in —, T. H. Pope. I, Copper, **1932**, 709; II, Lead, **1932**, 775; III, Zinc, **1933**, 30; IV, Manganese, **1933**, 91; V, Mercury, **1933**, 280; VI, Cobalt, **1933**, 340; VII, Nickel, **1933**, 340; VIII, Chromium, **1933**, 341; IX, Tin, **1933**, 398; X, Bismuth, **1933**, 607; XI, Antimony, **1934**, 109; XII, Cadmium, **1934**, 109; XIII, Thallium, **1934**, 109.

material; Collected references to the micro-determination of iron in —, Z. Sary, **1933**, 304.

material; Colorimetric determination of manganese in —, M. B. Richards, **1930**, 554.

material; Determination of arginine in —, V. C. Kiech, J. M. Luck and A. E. Smith, **1931**, 327.

material; Determination of bromides in —, L. D. Behr, J. W. Palmer and H. T. Clarke, **1930**, 641.

material; Determination of chlorides in —, W. L. Davies, **1933**, 79.

material; Determination of copper in —, C. A. Elvehjem and C. W. Lindow, **1929**, 245.

material; Determination of iodine in —, V. Trevorror and G. J. Fashena, **1935**, 628.

material; Determination of small quantities of lead, with special reference to urine and —, A. G. Francis, C. O. Harvey and J. L. Buchan, **1929**, 725.

material; Determination of traces of lead in —, with special reference to bone. G. R. Lynch, R. H. Slater and T. G. Osler, **1934**, 787. Erratum, **1935**, 32.

material; Determination of zinc in —, W. R. Todd and C. A. Elvehjem, **1932**, 581.

material; Further studies on the availability of iron in —, W. C. Sherman, C. A. Elvehjem and E. B. Hart, **1935**, 49.

material; Micro-determination of sodium in —, R. A. McCance and H. L. Shipp, **1932**, 129.

material; Micro Soxhlet apparatus for extracting lipoids from —, **1933**, 56.

material; Quantitative methods for determining iron in —, C. A. Elvehjem and E. B. Hart, **1926**, 258.

material; Thiolacetic acid as reagent for determining the inorganic iron-content of —, S. L. Tompsett, **1934**, 835.

material; Titration of fluorine in —, E. W. Scott and A. L. Henne, **1935**, 831.

material; Use of tartrazine in determining chlorides in —, W. R. Fearon and W. A. Gillespie, **1936**, 193.

Biological—continued.

media; Determination of very small proportions of ethyl bromide in —, F. L. Hahn, **1935**, 627.

method for detecting arsenic. A. F. Lerrigo, **1932**, 155.

method of determining vitamin A; Comparison between the colorimetric (Rosenheim, Drummond) and the —, **1928**, 156.

method of testing santonin and allied anthelmintics. A. Schneider, **1928**, 661.

Methods; Handbook of —. Part 315. E. Abderhalden (Review), **1930**, 722.

Nomenclature; Commission for the Reform of —, **1928**, 41.

oxidation of fats and soaps. **1935**, 38.

oxidations; Indophehol reaction in —, D. C. Harrison, **1930**, 146.

properties of milk; Hygienic evaluation of the —, M. A. Dychung and O. M. Briskin, **1928**, 229.

Sciences; Biochemical Laboratory Methods for Students of the —. (Review), C. A. Morrow, **1928**, 357.

stains; Standardisation of —, **1934**, 180.

Standardisation; Report of the Permanent Commission on —, Vitamin standards. **1932**, 173.

study of sterols; Sterols of plankton. G. Belloc, R. Fabre and H. Simmonet, **1930**, 587.

substances; Determination of iodine in —, C. O. Harvey, **1935**, 762.

test for blood. Sir W. Willcox, **1928**, 2.

testing of therapeutic substances. **1926**, 196.

tissues; Mountants for —, W. Marshall, **1930**, 416.

value of cereal proteins and casein; Effect of heat upon the —, A. F. Morgan, **1931**, 328.

value of the nitrogen of mixtures of patent white flour and animal foods. H. H. Mitchell and G. G. Carman, **1926**, 358.

Biologically active substances; Differences between — before and after isolation from the raw materials in which they occur. H. I. Waterman and C. Van Vludrop, **1934**, 498.

Biologie; Arbeitsmethoden der Trinkwasser —, H. Beger, **1931**, 698.

Biologischen Arbeitsmethoden; Handbuch der —, E. Abderhalden. Sect. IV. Refraktometrische Untersuchung der Milch. (Review), E. Reiss, **1929**, 127. Part 315. E. Abderhalden (Review), **1930**, 722. Part 308. **1931**, 422. Part 366. **1931**, 698. Section II. Physikalische Methoden, Part 3, No. 4. **1934**, 375. Section IV. Angewandte chemische und physikalische Methoden. Part 13, No. 5. E. Abderhalden (Review), **1935**, 61. Röntgenspektrographie als Untersuchungsmethode. J. R. Katz (Review), **1935**, 203.

Biology; Colloid Chemistry. Vol. II. Medicine and —. (Review), Ed. by J. Alexander, **1929**, 263.

Micro methods of determining proteins in —, A. Wasitzky, **1934**, 303.

Biology—*continued*.

- **Plant** —. An Outline of the Principles underlying Plant Activity and Structure. H. Godwin (Review), **1930**, 778.
Practical Physical and Colloid Chemistry for Students of Medicine and —. 2nd Ed. (Review), L. Michaelis, **1926**, 221.
- Bionomics** of the vinegar eelworm. B. G. Peters, **1928**, 661.
- Bioses**: monoses in presence of reducing —; New micro-method for detecting. H. Tauber, **1934**, 647.
- Birch Oil** as anti-ferment. **1928**, 612.
- Birds**: Fats of Japanese —. R. Koyama, **1928**, 543.
- Birds' Nests**: Chinese edible —. **1934**, 754.
- Birkenhead**: Appointment of W. H. Roberts as Agricultural Analyst for County Borough of —. **1930**, 566.
- Birmingham**: Appointment of H. H. Bagnall as Public Analyst for City and County Borough of —. **1929**, 285.
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Average composition of milk in City of —. **1929**, 467.
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- Biscuit Meal** in sausages; Sulphur dioxide in —. **1933**, 97.
- Biscuits**: Cream —. **1935**, 755.
Valuation of army — by chemical analysis. J. Straub and J. P. Peper, **1928**, 602.
- Bishop's** barley formula; Prediction of the extract of malt by —. W. J. Mitchell, **1932**, 464.
- Bismuth**: Atomic weight of —. **1928**, 160; **1929**, 296; **1934**, 547.
Characteristic atomic groupings of —. J. V. Dubsky, A. Okáč and J. Trtílek, **1935**, 846.
Colorimetric determination of —. C. Mahr, **1933**, 714.
Colour reaction of —. **1933**, 706.
Detection and determination of —; Sensitive reaction for. A. Girard and E. Fourneau, **1926**, 51, 159.
Detection of small quantities of — with *o*-hydroxyquinoline. R. Sazerac and J. Pouzergues, **1932**, 737.
Determination of —. G. J. Hough, **1929**, 308; G. G. Reissau, **1927**, 250.
Determination of — as metal. E. Rupp and G. Hamann, **1932**, 193.
Determination of — as oxyiodide. R. Strebinger and W. Zins, **1928**, 237.
Determination of — by means of oxyquinoline. R. Berg, **1928**, 58.
Distribution of — in the organs after injection of aqueous solutions. R. Fabre and M. Picon, **1929**, 252.
Drop reaction for —. **1931**, 484.
Electrolytic separation of lead and — with controlled potential. E. A. Collin, **1929**, 654.
in copper; Determination of —. N. Kameyama and S. Makishima, **1933**, 637; E. W. Colbeck, S. W. Craven and W. Murray, **1934**, 395; L. C. Nickolls, **1934**, 620; **1935**, 554.
in copper; Determination of small amounts of —. A. J. G. Smout and J. L. Smith, **1933**, 475; L. C. Nickolls, **1933**, 684.
in copper; Notes on determination of —. C. O. Bannister and W. M. Doyle, **1935**, 33.
in copper; Spectrographic method of determining —. B. Park, **1934**, 501.
in food and biological material; Bibliography on —. T. H. Pope, **1933**, 607.
in lead; Determination of traces of —. **1927**, 571.
in lead bullion; Rapid determination of copper and — by internal electrolysis. E. M. Collin, **1930**, 312.
in lead ores; Determination of — by internal electrolysis. E. M. Collin, **1930**, 680.
in medicinal substances; Determination of —. J. Gonzalez-Carrero, **1935**, 626.
in presence of other metals; Determination of traces of —. L. A. Haddock, **1934**, 163.
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in tin-zinc alloys; Determination of — by means of sodium hydrosulphite, **1929**, 397.
in urine; Determination of small quantities of —. C. A. Hill, **1926**, 97.
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iron in —; Determination of small quantities of. **1926**, 506.

Bismuth—*continued*.

- lead in copper alloys containing —; Determination of. **1933**, 25.
- lead in presence of small amounts of —; Separation and determination of traces of. J. H. Hamence, **1933**, 461; II, **1934**, 274.
- lozenges; Compound —. **1930**, 570; **1933**, 471.
- microchemistry of —; Collected references to. K. Heller, **1934**, 575.
- Micro-electrolytic determination of lead and —, and their separation by graded potential. A. J. Lindsey, **1935**, 744.
- Rapid gravimetric determination of elementary —. J. Dick, **1931**, 203.
- Sensitive test for —. H. Kubina and J. Plichta, **1927**, 659.
- Separation and determination of — by hydrolysis. L. Moser and W. Maxymowicz, **1926**, 161.
- Separation of cadmium from — by means of sodium hydrosulphite. **1929**, 400.
- Separation of earth acids from —. **1932**, 286.
- Separation of lead and —. H. Blumenthal, **1929**, 679.
- Separation of lead and —; New method for. Frick and Engemann, **1929**, 617.
- Separation of lead and —; Quantitative. H. Funk and J. Weinzierl, **1930**, 715.
- Separation of mercury from —. E. Schulek and S. Floderer, **1934**, 434.
- Separation of tellurium from —. **1926**, 369.
- Separation of thallium from —. **1928**, 459.
- Simultaneous volumetric determination of lead and —. H. T. Bucherer and F. W. Meier, **1931**, 336.
- tablets; Sale of —. A question of warranty. (Legal Notes), F. C. Bullock, **1930**, 752.
- tellurium in —; Detection of. H. Töpelmann, **1931**, 63.
- thallium in —; Rapid determination of small amounts of. F. Pavelka and H. Morth, **1932**, 804.
- Toxicological study of —. R. Fabre and M. Picon, **1929**, 55.
- Volumetric determination of —. W. Strecker and A. Herrmann, **1927**, 659; H. Kubina and J. Plichta, **1928**, 58; C. Mahr, **1933**, 638.
- Bismuth Carbonate**: nitrates in —; Determination of. G. J. W. Ferrey, **1929**, 756.
- Bismuth Tartrates**: Electrometric studies of complex-formation. II, —. C. Morton, **1931**, 469.
- Bismuthate** method for determining manganese. B. Park, **1926**, 425.
- Bismuthated Magnesia** tablets. **1934**, 439.
- Bismuthotantalite**: **1932**, 286.
- Bisulphite** works; Explosion in —. **1934**, 625.
- Bitter Almond Oil**: Microchemical distinction of —. **1929**, 363.
- Bitter Glucoside** of the olive. W. V. Cruess and C. L. Alsberg, **1934**, 829.
- Bitter Pit** in apples. A review of the problem. (Food Investigation Board Report, No. 28.) **1926**, 80.
- Bitter Substances** of hops; Analysis of —. W. Windisch, P. Kolbach and M. Winter, **1929**, 422.
- Bittern**: Fat of the Japanese —. **1928**, 543.
- Bittersweet**: Poisoning by —. H. Lowe, **1926**, 153.
- Bittersweet Seed Oil**: C. Barkenbus and C. F. Krewson, **1933**, 50.
- Bitumen**: Analysis of —. D. M. Wilson, **1935**, 117.
- Use of — in ancient Egypt. **1926**, 445.
- Bituminous** coal; Determination of decomposition point of —. H. W. Hibbott and R. V. Wheeler, **1934**, 850.
- coal; Electrostatic method of determining fusain in —. J. D. Davis and J. A. Younkins, **1929**, 616.
- Materials; Testing of —. Broome Child, **1935**, 130.
- road materials; "Brittle-point" of —. W. E. Golding and F. M. Potter, **1934**, 780.
- road-surfaces; Extraction apparatus for —. F. J. Nellensteyn, **1930**, 300. See also list of Errata.
- Biuret** reaction of di-acid amides. M. M. Rising, J. S. Hicks and G. A. Moerke, **1931**, 130.
- Black**: Carbon —. See **Carbon Black**.
- Black Currant** and orange and quinine wines. (Legal Notes), **1927**, 283.
- jam; Sulphur dioxide in —. **1935**, 820.
- pulp; Composition of —. **1926**, 352.
- Black Currants**: Analyses of —. L. H. Lampitt and E. B. Hughes, **1928**, 33.
- Boron compounds in —. **1929**, 17.
- Composition of fresh —. **1927**, 351.
- Black Draught**: W. Partridge, **1931**, 29.
- Black Rot** of eggs; Anaerobic bacterial causing —. R. M. Bohart, **1930**, 206.
- of sweet potatoes in storage; Infection and temperature relations of —. J. I. Lauritzen, **1927**, 99.
- Black Yeasts**: G. K. Burgwitz, **1928**, 553.
- Blackberries**: Analyses of —. L. H. Lampitt and E. B. Hughes, **1928**, 33.
- Refractometric investigation of juice of —. **1926**, 41; **1931**, 461.
- Blackbutt**: Identification of —. **1932**, 102.
- Blackgram** husk as adulterant of tea. **1933**, 35.
- Blacks** and Pitches. (Review), H. M. Langton, **1926**, 168.
- Blackwall Tunnel**: Ventilation of —. C. J. Regan, **1932**, 341.
- Bladder** cancer in dyeworks. **1934**, 626.
- Blaud's Pills**: **1928**, 647.
- Bleached** cotton; "Boiling off" value of —. Angele, **1926**, 476.
- writing; Deciphering chemically — by means of dyes. R. Mellet and A. Bischoff, **1926**, 100.
- Bleaching** agents; Action of improvers and — on flour. (Ministry of Health Report), **1927**, 226.
- of flour with chlorine and nitric oxide; Detection of —. J. Kulman, **1930**, 281.
- powder; Relative effectiveness of — as disinfectant, **1926**, 259.
- preparations; Determination of available chlorine in —. J. Hausner, **1927**, 433.
- Bleistiftschrift**: Atlas der —. S. Türkel (Review), **1930**, 603.

- Blende:** fluorine in —; Determination of. L. Fresenius, K. Schröder and M. Frommes, **1928**, 304.
- Bloater:** Formaldehyde in —. **1927**, 394.
- Blood:** A previously undetected constituent of —. E. W. Rockwood, R. G. Turner and J. J. Pffner, **1929**, 619.
- Acetaldehyde in normal — and its quantitative study in — of normal and diabetic dogs. A. H. Bee and I. L. Chaikoff, **1926**, 640.
- acetone bodies in urine and —; Colorimetric method for determining. J. A. Behre and S. R. Benedict, **1926**, 639.
- Acetylmethylcarbinol and 2:3-butylene glycol in the — of higher animals. M. Lemoigne and P. Monguillon, **1930**, 642.
- Action of — on sulphides. W. Denis and L. Reed, **1927**, 298.
- alcohol in —. Determination of. **1929**, 134.
- alcohol in —; Interferometric determination of. J. C. Bock, **1932**, 49.
- amide nitrogen of —; Quantitative determination of. S. Bliss, **1929**, 180.
- ammonia in —; Determination of. D. D. Van Slyke and A. Hiller, **1933**, 768.
- analysis; Colorimetric determination of cholesterol and lecithin in blood in connection with Folin and Wu's system of —. G. M. De Toni, **1926**, 639.
- analysis; Unlaked — as a basis for —. O. Folin, **1930**, 337.
- Antimony determined in —. **1934**, 102.
- Argon in —. L. Hackspill, A. P. Rollet and M. Nicloux, **1926**, 357.
- barbiturates in —; Rapid method of identifying. P. Chéramy and R. Lobo, **1935**, 52.
- bile acids in the —; Quantitative Pettenkofer test applicable to the determination of. M. Aldrich and M. S. Bledsoe, **1928**, 391.
- Biological test for —. Sir W. Willcox, **1928**, 2.
- bromine in normal —; Determination of. T. F. Dixon, **1934**, 637.
- calcium; Colorimetric determination of —. J. H. Roe and B. S. Kahn, **1929**, 181.
- calcium in —; Colorimetric determination of. S. Yoshimatsu, **1931**, 755.
- carbon monoxide in —; Determination of. W. M. M. Pilaar, **1928**, 612; **1929**, 553.
- carbon monoxide in —; Determination and detection of. A. A. Christman and E. L. Randall, **1933**, 769.
- carbon monoxide in —; Determination of percentage saturation of, by means of the Hartridge reversion spectroscope. R. C. Frederick, **1931**, 561.
- carbon monoxide in air and —; Pyrotannic acid method for determining. R. R. Sayers and W. P. Yant, **1926**, 99.
- cells; Determination of sodium in human red —. F. W. Gberst, **1935**, 194.
- cholesterol in small amounts of —; Determination of. S. M. Ling, **1928**, 231.
- Complement fixation test for —. **1928**, 4.
- Blood—continued.**
- copper in —; Distribution of. C. A. Elvehjem, H. Steenbock and E. B. Hart, **1929**, 555.
- dihydroxyacetone in urine and —; Quantitative determination of. W. S. McClellan, **1928**, 230.
- epinephrine (adrenaline) in —; Chemical method for estimating. J. C. Whitehorn, **1935**, 331.
- Ergosterol in human —. L. H. Dejust, Van Stolk and E. Dureuil, **1928**, 552.
- Ethyl alcohol in human and animal —. **1933**, 369.
- ethyl iodide in —; Method for determining minute amounts of. I. Starr, junr. and C. J. Gamble, **1927**, 168.
- fat; Titration method for —. J. L. Stoddard and P. E. Drury, **1930**, 53.
- fructose in —; Colorimetric determination of. J. H. Rose, **1934**, 835.
- fructose in —; New method for determining. L. B. Scott, **1935**, 562.
- galactose in —; Determination of. V. J. Harding and G. A. Grant, **1932**, 183.
- Gasometric determination of small amounts of carbon monoxide in —, and its application to — volume studies. D. D. Van Slyke and F. S. Robscheit-Robbins, **1927**, 291.
- glucose in human —; Mode of distribution of. E. M. MacKay, **1932**, 729.
- glutathione in the corpuscles of mammalian —; Presence of. H. F. Holden, **1926**, 95.
- goats' —; Goat's milk and composition of. F. E. Nottbaum and K. Philippi, **1933**, 762.
- group percentages for Arabs, Armenians and Jews. E. H. R. Altounyan, **1928**, 350.
- grouping in a case of disputed paternity. (Legal Notes), McGovern v. Bruen, **1932**, 247.
- grouping reactions; Use of — in forensic investigations. F. C. Martley, **1928**, 14.
- grouping tests. **1928**, 5.
- groups; Evidence on — in a trial for murder. (Legal Notes), Rex v. Freedman, **1932**, 249.
- groups in forensic medicine. **1932**, 262.
- groups; Medico-legal significance of —. F. Schiff, **1930**, 59.
- guanidine bases in —; Colorimetric determination of. J. J. Pffner and V. C. Myers, **1930**, 521.
- haemin crystals from —; Reagent facilitating the formation of. G. Bertrand, **1932**, 664.
- haemoglobin in —; Purification of benzidine, and an improved reagent for. F. C. Bing, **1932**, 329.
- hydrogen ion concentration of —; Colorimetric determination of. V. C. Myers and E. Muntwyler, **1928**, 447.
- Hydrogen ions in — determined with the Duboscq colorimeter. J. F. McClendon, S. Russell and E. Tracy, **1927**, 43.
- in urine; Detection of —. G. Poirot and A. Lambert, **1926**, 642.
- indoxyl compounds in —; Quantitative determination of. H. Sharlit, **1934**, 190.

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- iodine in —; Determination of. I. Bellucci and R. Vigni, **1935**, 263.
- iodine in —; Micro-colorimetric method for the quantitative determination of. R. G. Turner, **1930**, 707.
- iodine in —; New method for determining. D. R. McCullagh, **1934**, 838.
- iodine in —; Technical refinements for the micro-colorimetric method for. R. G. Turner and M. Z. Weeks, **1933**, 169.
- Iron content of the whole — of normal individuals. O. M. Helmer and C. P. Emerson, Jr., **1934**, 190.
- iron in —; Determination of. F. S. Fowweather, **1926**, 309.
- iron in —; Micro-determination of. F. H. Smirk, **1927**, 291.
- Isolation of a new substance from — and its bearing on present methods for determining uric acid. G. Hunter and B. A. Eagles, **1926**, 95.
- Kjeldahl nitrogen determination, and determination of non-protein nitrogen of —. P. L. Kirk, **1935**, 642.
- lactic acid in —; Determination of. E. Ronzoni and Z. Wallen-Lawrence, **1927**, 603.
- lactic acid in —; Gasometric method of determining. B. F. Avery and A. B. Hastings, **1932**, 50.
- laevulose in —; Colorimetric method for determining. R. C. Corley, **1929**, 180.
- lead in —; Determination of traces of. **1934**, 794, 798.
- lipoid phosphorus in —; Colorimetric determination of. A. R. Harnes, **1928**, 392; S. L. Leiboff, **1929**, 50.
- Magnesium in — determined by means of 8-hydroxyquinoline. D. M. Greenberg and M. A. Mackey, **1932**, 730.
- Magnesium in — determined microchemically without removing calcium. S. Yoshimatsu, **1931**, 756.
- Micro time method for determining reducing sugars, and its application to the analysis of urine and —. J. A. Hawkins, **1929**, 750.
- Microchemical, microspectroscopical and quantitative examination of —. M. Wagenaar, **1930**, 405.
- non-protein nitrogen and urea in —; Micro-determination of. F. Rappaport, **1934**, 718.
- non-protein sulphur compounds of —; Methods for determining some. W. Denis and L. Reed, **1927**, 96.
- of fish, eels and turtles; Phosphorus distribution, sugar and haemoglobin in —. C. M. McCay, **1931**, 263.
- of motor drivers; Alcohol in —. K. Hansen, **1933**, 359.
- phosphorus in —; Determination of. J. H. Gaddum, **1927**, 241.
- phosphorus; Inorganic — in rats fed on normal, rachitic and irradiated rachitic diets. R. A. Dutcher, M. Creighton and H. A. Rothrock, **1926**, 206.

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- pigment; Reaction of potassium ferricyanide with the —. M. Nicloux and J. Roche, **1926**, 95.
- Piperazine for use in analysing —. R. Gros, **1929**, 49.
- Prepittin test for —. **1928**, 3, 5. H. S. Shrewsbury, **1928**, 380; G. R. Lynch, **1928**, 435.
- Preservation of — for chemical analysis by the use of sodium fluoride. J. H. Rose, O. J. Irish and J. I. Boyd, **1928**, 105.
- proteins; Use of molybdic acid as a precipitant for —. S. R. Benedict and E. B. Newton, **1929**, 428.
- Pyramidone as a reagent for —. M. Elzas and L. M. Lansberg, **1927**, 167.
- Reducing non-sugars and true sugar in human —. M. Somogyi, **1927**, 719.
- Separation of alkaloids from —. M. G. Florence, **1927**, 723.
- serum; Colorimetric method for determining inorganic phosphate in —. S. L. Leiboff, **1928**, 663.
- serum; Colorimetric determination of total and inorganic sulphates in —. E. G. Wakefield, **1929**, 300.
- serum; Determination of total base in — by means of gasometric micro method for determining iodates and sulphates. D. D. Van Slyke, A. Hiller and K. C. Berthelsen, **1927**, 651.
- serum; Micro-determination of sodium in —. **1932**, 129.
- silica in —; Micro-determination of. G. Rodillon, **1934**, 438.
- silver in organs and —; Micro-determination of. L. Pincussen and W. Roman, **1930**, 350.
- stains; Alumina cream as means of obtaining clear extracts of —. **1930**, 49.
- stains; Detection of —. **1926**, 411.
- stains; Infra-red rays in the examination of —. **1935**, 460.
- stains; Spectrum of haematoporphyrin and its significance in the recognition of traces of old —. M. Wagenaar, **1934**, 499.
- stains; Tests for —. **1934**, 178.
- succinic acid in —; Determination of. P. W. Clutterbuck, **1928**, 549.
- sugar determination, and separation of sugars with live yeast. A. L. Raymond and J. G. Blanco, **1928**, 669.
- sugar; Determination of —. S. R. Benedict I, **1926**, 467; II, **1928**, 230.
- sugar in — and cerebrospinal fluid; Comparison of the Folin-Wu and the new Benedict method for. J. D. Lyttle and J. E. Hearn, **1926**, 466.
- sugar in — and in normal urine; Determination of. O. Folin, **1926**, 309.
- sugar in —; Application of the iodimetric method to the determination of. H. Bierry, B. Gouzon and C. Magnan, **1933**, 354.
- sugar in —; Determination of. I, Observations upon Benedict's alkaline copper solution. M. R. Everett, **1929**, 430.

Blood—*continued*.

- sugar** in —; Volumetric micro-determination of. F. Rappoport and M. Pistiner, **1935**, 199.
- sugar method; New —. O. Folin, **1928**, 392.
- sugar; Note on the new ferricyanide method for —. O. Folin, **1929**, 246.
- sugar values; Correction of Folin-Wu —. B. L. Oser and W. G. Karr, **1926**, 258.
- tartaric acid in —; Colorimetric determination of. **1932**, 587.
- tests in connection with drowning. **1929**, 599.
- tests in paternity cases, **1928**, 17. (Legal Notes), **1928**, 38.
- Thiasine (new sulphur-containing compound) in the —. S. R. Benedict, E. B. Newton and J. A. Behre, **1926**, 257.
- tryptophane in —; Colorimetric method for determining the free. C. A. Cary, **1928**, 501.
- Unlaked — as a basis for — analysis. O. Folin, **1930**, 337.
- urea in —; Micro-determination of. P. Wenger, Ch. Cimerman and A. Maulbetsch, **1934**, 507.
- urea nitrogen; Determination of — by direct Nesslerisation. J. M. Looney, **1930**, 642.
- uric acid in —; Determination of. H. Brown, **1926**, 357.
- Urobilin content of normal human —. M. A. Blankenhorn, **1929**, 116.
- vitamin A content of —; New method of determining. E. Rosenthal and C. Szilard, **1935**, 563.
- Blood Sausage** with artificially coloured skin. T. Marl, **1927**, 93.
- "Blowing"**: Effect of — on the composition of certain fatty oils. C. H. Thomson, **1926**, 177. of canned fruit due to chemical action. G. W. Monier-Williams, **1926**, 402.
- "Blown"** tins; Freshly ground coffee and —. J. W. Black, **1926**, 403.
- Blubber Oil** from the dugong. **1926**, 150.
- Blue Value** of average cod-liver oil. **1935**, 356.
- Blueberry**: Non-volatile acids of the —. E. K. Nelson, **1927**, 418.
- Boa Constrictor** fat. R. H. Kerr, **1927**, 610.
- Board of Trade** standards. **1935**, 470.
- Boards**: Arsenic in coated papers and —. H. J. Stern, **1928**, 83.
- Body fat**; Effect of ingested cotton seed oil on the composition of —. N. R. Ellis, C. S. Rothwell and W. O. Pool, **1931**, 609.
- fat of hogs; Influence of the ration upon the composition of the —. Effect of fat in food upon individual fatty acids in the —. N. R. Ellis and H. S. Isbell, **1926**, 524.
- fluids and tissues; Electrolytic method of determining small amounts of mercury in —. A. G. Young and F. H. L. Taylor, **1929**, 759.
- fluids; Colorimetric determination of total and inorganic sulphates in blood serum, urine and other —. E. G. Wakefield, **1929**, 300.
- oil from sperm whale. Y. Toyama, **1927**, 726.
- Bog Butter**: Analyses of two samples of Irish —. P. S. Arup, **1932**, 300.
- Boie's Method** for determining theobromine in pharmaceutical preparations. H. J. Van Giffen, **1933**, 101.
- "Boiling Off"** value of bleached cotton. Angele, **1926**, 476.
- Boiling-Point** method; Apparatus for determining molecular weights by the —. H. Rupe and N. Wassilieff, **1928**, 510.
- of petroleum products; Relation between some other properties and the —. J. B. Hill and S. W. Ferris, **1926**, 105.
- Boiling-Points**: Micro-determination of —. J. B. Niederl and I. B. Routh, **1933**, 115.
- Bole**: Arsenious oxide in Armenian —. **1926**, 413.
- Bolton**: Average composition of milk in County Borough of —. **1929**, 467.
- Bolton and Williams Method** for sterol iodine values of oils and fats; Preliminary notes on —. A. C. Bose, **1935**, 160.
- Bombay mace** substituted for ground mace. **1930**, 193.
- Bombicysterol**: Note on —. W. Bergmann, **1935**, 49.
- Bombs**: Calorimeter — of stainless steel. **1934**, 36.
- Determination of the heating value of coals in monel metal —. J. C. Geniesse and E. J. Soop, **1926**, 110.
- Examination of —. **1931**, 666; in Madras, **1934**, 543.
- heat value of coal in nickel-lined —; Determination of. A. E. Stoppel and E. P. Harding, **1929**, 65.
- Bömer's** melting-point method; Influence of fatty acids on —. F. J. F. Muschter and R. Smid, **1926**, 464.
- Bondon** cheese. **1929**, 661.
- milk cheese. **1930**, 686.
- Bone** and meat meals; Analysis of —. G. A. Lawrence, **1935**, 611.
- ash in rats fed on normal, rachitic and irradiated rachitic diets. R. A. Dutcher, M. Creighton and H. A. Rothrock, **1926**, 206.
- char; Spent —. **1932**, 34.
- Determination of traces of lead in biological materials, with special reference to —. G. R. Lynch, R. H. Slater and T. G. Osler, **1934**, 787. Erratum, **1935**, 32.
- flour; Steamed —. **1933**, 225.
- Influence of light conditions on constituents of —. **1930**, 390.
- meal; Water in —. J. G. Sherratt, **1935**, 170.
- Bones**: calcium and phosphate content of —; Determination of. C. K. Deischer and W. M. McNabb, **1935**, 750.
- Identification of —. **1927**, 539.
- Mercury in —. **1932**, 718.
- Book Lice** in flour. **1935**, 819.
- Book Reviews**: Abderhalden, E. Handbuch der Biologischen Arbeitsmethoden. Lieferung 315, **1930**, 722; Lieferung No. 308. **1931**, 422; Section II. Physikalische Methoden, Part 3, No. 4. **1934**, 375; Section IV. Angewandte chemische und physikalische Methoden. Part 3, No. 5. **1935**, 61; Röntgenspektrographie als Untersuchungsmethode. No. 436. **1935**, 203.

Book Reviews—continued.

- Adeney, W. E. The Principles and Practice of the Dilution Method of Sewage Disposal. **1928**, 678.
- Alexander, J. Colloid Chemistry—Theoretical and Applied. Vol. II, Biology and Medicine. **1929**, 263; Vol. III, **1932**, 203; Vol. IV, **1932**, 601.
- Allen's Commercial Organic Analysis. 5th Ed. Vol. IV, **1926**, 320; Vol. V, **1927**, 615; Vol. VI, **1928**, 356; Vol. VII, **1930**, 73; Vol. VIII, **1931**, 58; Vol. IX, **1932**, 544; Vol. X, **1934**, 207.
- American Association of Cereal Chemists. Cereal Laboratory Methods. 3rd Ed. **1935**, 727.
- Annali di Merceologia Siciliana. Vol. II. **1935**, 727.
- Annual Tables of Constants and Numerical Data: Chemical, Physical and Technological. **1927**, 54, 175.
- Archbutt, L., and Deeley, R. M. Lubrication and Lubricants. 5th Ed. **1927**, 562.
- Archibald, E. H. Preparation of Pure Inorganic Substances. **1932**, 743.
- Arenson, S. B. Chemical Arithmetic. **1933**, 125.
- Armstrong, E. F. and K. F. The Carbohydrates. 5th Ed. **1935**, 128.
- Armstrong, E. F. and K. F. The Glycosides. **1932**, 481.
- Armstrong, H. E. Essays on the Art and Principles of Chemistry. **1927**, 435.
- Arnall, F., and Hodges, F. W. Theoretical Organic Chemistry. Part I. **1927**, 54.
- Ashworth, A. A. The Analysis of Oil for Production of Lubricants. **1934**, 442.
- Association of Official Agricultural Chemists: Official and Tentative Methods of Analysis. **1932**, 342.
- Atack, F. W. The Chemist's Year Book. **1926**, 322; **1927**, 498; **1928**, 618; **1929**, 563; **1931**, 622.
- Attix, J. C. A Handbook of Elementary Chemistry. 2nd Ed. **1928**, 307.
- Auden, H. A. Sulphuric Acid and its Manufacture. **1931**, 493.
- Autenrieth, W. Laboratory Manual for the Detection of Poisons and Powerful Drugs. **1929**, 126.
- Aykroyd, W. R. Three Philosophers (Lavoisier, Priestley and Cavendish). **1935**, 502.
- Aykroyd, W. R. Vitamins and Other Dietary Essentials. **1933**, 428.
- Bailey, C. H. Chemistry of Wheat Flour. **1926**, 114.
- Ballard, C. W. The Elements of Vegetable Histology. 2nd Ed. **1928**, 187.
- Baly, E. C. C. Spectroscopy. Vols. II and III. **1927**, 732.
- Bamford, T. G., and Harris, H. The Metallurgist's Manual. **1927**, 501.
- Barger, G. Ergot and Ergotism. **1932**, 348.
- Barnard, J. E., and Welch, F. V. Practical Photomicrography. 2nd Ed. **1926**, 486.
- Barr, G. A Monograph of Viscometry. **1931**, 496.
- Barry, T. H. Natural Varnish Resins. **1934**, 308.

Book Reviews—continued.

- Bates, S. C. The Synthesis of Benzene Derivatives. **1926**, 430.
- B.D.H. "Analar" Standards for Laboratory Chemicals. **1935**, 63.
- B.D.H. Book of Standards. **1926**, 373.
- B.D.H. Guide to the British Pharmacopoeia, 1932. **1932**, 809.
- B.D.H. Reagents for "Spot" Tests. **1933**, 64.
- Beacall, Challenger, Martin and Sand. Dye-stuffs and Coal-Tar Products. Manuals of Chemical Technology. 4th Ed. **1927**, 256.
- Bennett, R. R., and Cocking, T. T. The Science and Practice of Pharmacy. **1933**, 647.
- Bentley, A. O., and Driver, J. E. Analytical Tables. **1928**, 309.
- Bentley, A. O., and Driver, J. E. Textbook of Pharmaceutical Chemistry. 2nd Ed. **1933**, 724.
- Bibby's Book on Milk. **1933**, 59.
- Blacktin, S. C. Dust. **1935**, 66.
- Blyth, A. W., and Blyth, M. W. Foods: Their Composition and Analysis. 7th Ed. **1928**, 461.
- Bodansky, M. Introduction to Physiological Chemistry. **1927**, 664; 2nd Ed., **1931**, 139; 3rd Ed., **1934**, 851.
- Böhm, E., and Dietrich, K. R. Reagenzien und Nahrboden. **1928**, 186. Erratum, **1928**, 241.
- Bolam, T. R. The Donnan Equilibria. **1932**, 542.
- Bolton, E. R. Oils, Fats and Fatty Foods. **1928**, 363.
- Bömer, A., Juckenack, A., and Tillmans, J. Handbuch der Lebensmittel. Vol. I, **1933**, 503; Vol. II, Part I, **1934**, 440; Vol. VI, **1935**, 345.
- Bomskov, C. Methodik der Vitaminforschung. **1935**, 348.
- Bone, W. A., and Townend, D. T. A. Flame and Combustion in Gases. **1927**, 734.
- Bone, W. A., Newitt, D. M., and Townend, D.T.A. Gaseous Combustion at High Pressure. **1930**, 302.
- Boys, Sir C. V. The Natural Logarithm. **1935**, 436.
- Bradley, T. J. A Laboratory Manual of Qualitative Chemical Analysis. 4th Ed. **1928**, 308.
- Briggs, D. G. Practical Glass Manipulation. **1926**, 601.
- British Colour Council. Dictionary of Colour Standards. **1934**, 724.
- British Pharmaceutical Codex, 1934. **1934**, 725.
- British Pharmacopoeia, 1932. **1932**, 805.
- Britton, H. T. S. Conductometric Analysis. **1934**, 854. See also list of Errata.
- Britton, H. T. S. Hydrogen Ions. Their Determination and Importance in Pure and Industrial Chemistry. **1929**, 687; 2nd Ed., **1932**, 543.
- Browne, C. A. The Life and Chemical Services of Frederick Accum. **1926**, 276.
- Browning, E. The Vitamins. **1932**, 132.

Book Reviews—continued.

- Bywaters, H. W. Cocoa and Chocolate Manufacture. 1931, 69.
- Caley, E. R. Analytical Factors and their Logarithms. 1933, 312.
- Callow, A. B. Food and Health. An Introduction to the Study of Diet. 1928, 682.
- Calvert, R. Diatomaceous Earth. 1930, 661.
- Cameron, A. T. A Textbook of Biochemistry for Students of Medicine and Science. 1928, 358.
- Candy, H. C. H. Some newly-discovered Stanzas written by John Milton. 1926, 222.
- Cartledge, S. H. Inorganic Physical Chemistry. 1926, 217.
- Caven, R. M. Atoms and Molecules. 1928, 309.
- Caven, R. M., and Cranston, J. A. Symbols and Formulae in Chemistry. An Historical Study. 1928, 677.
- Chamot, E. M., and Mason, C. W. Handbook of Chemical Microscopy. 1930, 470; Vol. II, 2nd Ed., 1931, 559.
- Chemistry in Medicine. 1929, 312.
- Claremont, C. L. A Practical Handbook of Rat Destruction. 1926, 378.
- Clark, A. J. Applied Pharmacology. 4th Ed. 1932, 351.
- Clay, R. S., and Court, T. H. History of the Microscope. 1933, 649.
- Clayton, W. Colloid Aspects of Food Chemistry and Technology. 1932, 133.
- Clayton, W. The Theory of Emulsions and their Technical Treatment. 2nd Ed. 1928, 185.
- Clowes, F., and Coleman, J. B. Elementary Analytical Chemistry—Qualitative and Quantitative. 11th Ed., 1931, 137; 12th Ed., 1935, 277.
- Clowes, F., and Coleman, J. B. Quantitative Chemical Analysis. 13th Ed. 1932, 597.
- Cole, S. W. Practical Physiological Chemistry. 7th Ed., 1926, 273; 8th Ed., 1929, 70; 9th Ed., 1934, 143.
- Coleman, B., and Arnall, F. The Preparation and Analysis of Organic Compounds. 1926, 599.
- Coles, L. A. An Introduction to Modern Organic Chemistry. 1930, 720.
- Collins, S. H., and Redington, G. Plant Products. 1927, 108.
- Colloid Symposium Monograph. 1929, 68.
- Commissioners of H.M. Customs and Excise. Spirit Tables for use with Sikes's A and B Hydrometers. 1934, 444.
- Contemporary Developments in Chemistry. 1929, 262.
- Cox, H. E. The Chemical Analysis of Foods. 1926, 164.
- Crane, E. J., and Patterson, A. M. A Guide to the Literature of Chemistry. 1928, 466.
- Creighton, H. J. Principles and Applications of Electrochemistry. Vol. I. Principles. 2nd Ed. 1929, 192.
- Crocker, J. C., and Matthews, F. Theoretical and Experimental Physical Chemistry. 1928, 242.

Book Reviews—continued.

- Cumming, A. C., and Kay, S. A. A Textbook of Quantitative Chemical Analysis. 6th Ed. 1935, 503.
- Cunningham, A. Practical Bacteriology for Students of Agriculture. 2nd Ed. 1935, 280.
- Damon, S. R. Food Infections and Food Intoxications. 1928, 405.
- Danckwortz, P. W. Lumineszenz-Analyse im Filtrierten Ultravioletten Licht. 3rd Ed. 1935, 68.
- Darling, E. R. Inorganic Chemical Symbols and other useful Data. 2nd Ed. 1927, 502.
- Darwin, C. G. The New Conceptions of Matter. 1932, 413.
- Davidson, A. Intermediates for Dyestuffs. 1926, 219.
- Davies, C. W. The Conductivity of Solutions and the Modern Dissociation Theory. 1930, 469; 2nd Ed., 1933, 645.
- Dawson, T. R., and Porritt, B. D. Rubber. Physical and Chemical Properties. 1935, 857.
- Daynes, H. A. Gas Analysis by Measurement of Thermal Conductivity. 1933, 425.
- Debye, P. Polar Molecules. 1930, 71.
- De Visser, W. The Calender Effect and the Shrinking Effect of Unvulcanised Rubber. 1927, 256.
- De Wild, M. The Scientific Examination of Pictures. 1930, 306.
- Dhéré, C. Nachweis der Biologisch Wichtigen Körper durch Fluoreszenz und Fluoreszenzspektren. 1934, 375.
- Dootson, F. W., and Berry, A. J. First Principles of Chemistry. 1928, 244.
- Dorée, C. Methods of Cellulose Chemistry, 1933, 788.
- Driver, J. E., and Trease, G. E. The Chemistry of Crude Drugs. 1928, 513.
- Drummond, J. C., Hill, A. V., Dale, H. H., and Henderson, L. J. Lectures on Certain Aspects of Biochemistry. 1926, 431.
- Durrans, T. H. Solvents. 1930, 726; 2nd Ed., 1931, 695; 3rd Ed., 1934, 307.
- Dyer, B., and Mitchell, C. A. The Society of Public Analysts and Other Analytical Chemists. Some Reminiscences of its First Fifty Years and a Review of its Activities. 1933, 119.
- Dyson, G. M. The Chemistry of Chemotherapy. 1928, 464.
- Edible and Poisonous Fungi. Miscellaneous Publications No. 54. 1926, 604.
- Ellis, D. Sulphur Bacteria. 1932, 679.
- Elsdon, G. D. Edible Oils and Fats: Their Substitutes and Adulterants. 1927, 61.
- Emich, F. Microchemical Laboratory Manual. 1932, 741.
- Emich, F. Mikrochemisches Praktikum. 2nd Ed. 1931, 138.
- Engelder, C. J. A Textbook of Elementary Qualitative Analysis. 2nd Ed. 1934, 511.
- Engelder, C. J. Calculations of Qualitative Analysis. 1933, 573.
- Engelder, C. J. Elementary Qualitative Analysis. 1930, 417.

Book Reviews—continued.

- Engelder, C. J. Elementary Quantitative Analysis. **1930**, 356.
- Ensoll, R. Bayley's Chemists' Pocket Book. 9th Ed. **1929**, 495.
- Ephraim, F. A Textbook of Inorganic Chemistry. **1926**, 651; 2nd English Ed., **1934**, 309.
- Ernst, F. A. Fixation of Atmospheric Nitrogen. **1929**, 195.
- Evans, E. A. Lubricating and Allied Oils. 2nd Ed. **1933**, 426.
- Everest, A. E. The Higher Coal-Tar Hydrocarbons. **1928**, 114.
- Evers, N. The Chemistry of Drugs. **1926**, 272.
- Evers, N., and Elsdon, G. D. The Analysis of Drugs and Chemicals. **1929**, 774.
- Eynon, L., and Lane, J. H. Starch: Its Chemistry, Technology and Uses. **1929**, 373.
- Eyre, J. W. H. Bacteriological Technique. 3rd Ed. **1931**, 772.
- Faust, O. Artificial Silk. **1929**, 499.
- Fearon, W. R. An Introduction to Biochemistry. **1934**, 372.
- Feigl, F. Qualitative Analyse mit Hilfe von Tüpfelreaktionen. **1931**, 492; 2nd Ed., **1935**, 205.
- Felstead, S. T. Sir Richard Muir: A Memoir of a Public Prosecutor. **1927**, 375.
- Fierz-David, H. E. Künstliche Organische Farbstoffe. **1927**, 372.
- Filby, F. A. A History of Food Adulteration and Analysis. **1935**, 281.
- Findlay, A. Chemistry in the Service of Man. **1931**, 843.
- Findlay, A. Introduction to Physical Chemistry. **1934**, 140.
- Findlay, A. Practical Physical Chemistry. 5th Ed. **1931**, 276. Erratum, **1931**, 352.
- Findlay, A. The Phase Rule and its Applications. 6th Ed. **1928**, 244.
- Findlay, A. The Spirit of Chemistry. **1931**, 140; 2nd Ed., **1935**, 578.
- Finnemore, H. The Essential Oils. **1927**, 111.
- Finter, F. B. An Introduction to Physical Chemistry. **1927**, 175.
- Firth, J. B. Chemistry in the Home. **1929**, 625.
- Fowles, G. Volumetric Analysis. **1933**, 62.
- Fowweather, F. S. A Handbook of Clinical Chemical Pathology. **1929**, 775.
- Fox, J. J., and Bowles, T. H. The Analysis of Pigments, Paints, and Varnishes. **1927**, 110.
- Freund, H. Colorimetry: Its Application in Analytical and Clinical Practice. **1933**, 310.
- Freundlich, H. Colloid and Capillary Chemistry. **1926**, 598.
- Friedrich, A. Die Praxis der Quantitativen Organischen Mikro-analyse. **1933**, 725.
- Friend, J. N. A Text-book of Inorganic Chemistry. Vol. VI, Part 2: Phosphorus. By E. B. R. Prideaux. **1934**, 511.
- Fuhrmann, F. Die Chemie der Nahrungs- und Genussmittel. **1927**, 499.

Book Reviews—continued.

- Gaechtgens, W. Methoden der Bakteriologischen Untersuchung von Nahrungsmitteln. **1926**, 377.
- Gamble, W. B. Chemistry and Manufacture of Writing and Printing Inks. A List of References in the New York Public Library. **1927**, 313.
- Gardner, A. D. Microbes and Ultramicrobes, **1932**, 414.
- Gardner, W. Chemical Synonyms and Trade Names. **1926**, 654.
- Gardner, W. Fertilisers and Soil Improvers. **1928**, 309.
- Garner, W. Industrial Microscopy. **1933**, 313.
- Gerlach, Walther and Werner. Clinical and Pathological Applications of Spectrum Analysis. **1935**, 204.
- Gessner, H. Die Schlämmanalyse. **1931**, 352.
- Gill, A. Oil Analysis. 11th Ed. **1927**, 617.
- Giltner, W. General Microbiology. **1928**, 362.
- Glaister, J. A Study of Hairs and Wools. **1931**, 696.
- Glasstone, S. Chemistry in Daily Life. **1930**, 157.
- Glasstone, S. Recent Advances in Physical Chemistry. **1932**, 68; 2nd Ed., **1934**, 140.
- Glyn-Jones, H. The Pharmacy and Poisons Act Explained. **1934**, 67.
- Godwin, H. Plant Biology: An Outline of the Principles Underlying Plant Activity and Structure. **1930**, 778.
- Gortner, R. A. Outlines of Biochemistry. **1930**, 227.
- Grant, J. The Measurement of Hydrogen Ion Concentration. **1930**, 660.
- Green, S. J. Industrial Catalysis. **1928**, 621.
- Greenman, M. N., and Duhring, F. L. Breeding and Care of the Albino Rat for Research Purposes. 2nd Ed. **1932**, 680.
- Griffith, R. O. Photo-Processes in Gaseous and Liquid Systems. **1930**, 72.
- Grünsteidl, E. Praktikum der Warenkunde. **1932**, 202.
- Gurwitsch, L., and Moore, H. Scientific Principles of Petroleum Technology. **1932**, 676.
- Haas, A. Quantum Chemistry. **1931**, 275.
- Haas, P., and Hill, T. G. An Introduction to the Chemistry of Plant Products. 4th Ed. Vol. I, **1928**, 681; Vol. II, **1929**, 775.
- Hackh, J. W. D. A Chemical Dictionary. **1930**, 231.
- Hackney, N. The Quantitative Analysis of Inorganic Materials. **1930**, 775.
- Haldane, J. B. S. Monographs on Biochemistry: Enzymes. **1931**, 343.
- Haldane, J. S., and Graham, J. I. Methods of Air Analysis. 4th Ed. **1935**, 278.
- Hall, W. T. Analytical Chemistry. Vol. II. Quantitative. Based on the Text of F. P. Treadwell. 7th Ed. **1929**, 258.
- Hall, W. T. Textbook of Quantitative Analysis. **1931**, 422; **1935**, 853.
- Hammer, B. W. Dairy Bacteriology. **1929**, 442.

Book Reviews—continued.

- Hampshire, C. H. Volumetric Analysis. 4th Ed. **1927**, 311.
- Harden, A. Alcoholic Fermentation. 4th Ed. **1932**, 546.
- Harrison, G. A. Chemical Methods in Clinical Medicine. **1931**, 346.
- Harvey, A. Laundry Chemistry. **1927**, 62.
- Hatschek, E. Introduction to the Physics and Chemistry of Colloids. **1926**, 112.
- Hatschek, E. Laboratory Manual of Elementary Colloid Chemistry. **1926**, 112.
- Hausbrand, E. Principles and Practice of Industrial Distillation. **1926**, 58.
- Hauser, E. A. Latex, Its Occurrence, Collection, Properties and Technical Applications. **1930**, 601.
- Heaton, N. Volatile Solvents and Thinners. **1926**, 379.
- Henrici, A. T. Molds, Yeasts and Actinomycetes. **1930**, 774.
- Hicks, J. A. The Laboratory Book of Mineral Oil Testing. 4th Ed. **1926**, 217.
- Hilditch, T. P. Catalytic Processes in Applied Chemistry. **1930**, 68.
- Hilditch, T. P. The Industrial Chemistry of the Fats and Waxes. **1928**, 63.
- Hilger, A., Ltd. Recent Applications of Absorption Spectrophotometry. **1932**, 482.
- Hillebrand, W. F., and Lundell, G. E. F. Applied Inorganic Analysis. With Special Reference to the Analysis of Metals, Minerals and Rocks. **1930**, 351.
- Hind, H. L., and Randles, H. B. Handbook of Photomicrography. 2nd Ed. **1927**, 561.
- Hinton, C. L. A Summary of Food Laws and Regulations. **1934**, 725.
- Holleman, A. F. A Textbook of Organic Chemistry. 6th Ed., **1926**, 650; 7th Ed., **1928**, 184; 7th English Ed., **1931**, 211.
- Holmes, H. N. Introductory Colloid Chemistry. **1934**, 441.
- Holmes, H. N. Laboratory Manual of Colloid Chemistry. 2nd Ed., **1928**, 407; **1934**, 441.
- Holmyard, E. J. Makers of Chemistry. **1932**, 810.
- Hopkins, E. S. Water Purification Control. **1934**, 67.
- Hopkin & Williams's Research Staff. Organic Reagents for Metals. **1933**, 310.
- Horsfall, R. S., and Lawrie, L. G. The Dyeing of Textile Fibres. **1927**, 664.
- Hougen, O. A. Industrial Chemical Calculations. **1932**, 483.
- Howe, H. E. Chemistry in Industry. A Co-operative Work intended to give Examples of the Contributions made to Industry by Chemistry. Vols. I and II. **1926**, 489.
- Hudleston, L. J. Chemical Affinity. **1930**, 72.
- Hunter, A. Creatine and Creatinine. **1929**, 195.
- Huntress, E. H. A Brief Introduction to the Use of Beilstein's Handbuch der Organischen Chemie. **1931**, 842.
- Hunwicke, R. F. The Essentials of Bacteriological Technique. **1932**, 600.

Book Reviews—continued.

- Hurd, C. D. The Pyrolysis of Carbon Compounds. **1929**, 689.
- Hyde, C. G., and Mills, F. E. Gas Calorimetry **1933**, 124.
- International Critical Tables of Numerical Data of Physics, Chemistry and Technology. Vol. I. **1926**, 482.
- International League of Pharmacists. Untersuchungsmethoden für Arzneispezialitäten, **1933**, 428.
- International Register of Spas and Medicinal Waters. **1931**, 776.
- Jamieson, G. S. Vegetable Fats and Oils. **1932**, 349.
- Jamieson, G. S. Volumetric Iodate Methods. **1926**, 542.
- Jensen, R. H. Chemistry, Flavouring and Manufacture of Chocolate Confectionery and Cocoa. **1931**, 768.
- Johns, H. J. Fertilisers and Feeding Stuffs Acts. **1929**, 196.
- Johnson, C. H. Chemical Analysis of Special Steels. 4th Ed. **1931**, 213.
- Johnson, F. W. Easily Interpolated Trigonometric Tables with Non-interpolating Logs, Cologs and Antilogs. **1934**, 443.
- Johnson, F. W. Non-interpolating Logarithms, Cologarithms and Antilogarithms, **1931**, 426.
- Jørgensen, H. Wasserstoff-Ionenkonzentration (pH). **1935**, 854.
- Kamm, O. Qualitative Organic Analysis: An Elementary Course in the Identification of Organic Compounds. 2nd Ed. **1933**, 184.
- Katz, J. R. Die Röntgenspektrographie als Untersuchungsmethode. **1935**, 203.
- Kaye, G. W. C., and Laby, T. H. Physical and Chemical Constants. 5th Ed. **1927**, 53.
- Keane, C. A., and Thorne, P. C. L. Lunge and Keane's Technical Methods of Chemical Analysis. 2nd Ed. Vol. II. **1929**, 66.
- Kent-Jones, D. W. Modern Cereal Chemistry. Revised Ed. **1928**, 310.
- Kent-Jones, D. W. The Practice and Science of Bread-making. **1935**, 203.
- King, A., and Fromherz, H. German-English Chemical Terminology. **1934**, 782.
- Kingzett, C. T. Chemical Encyclopaedia. 4th Ed., **1928**, 464; 5th Ed., **1932**, 809.
- Kipping, F. S., and F. B. Organic Chemistry. **1933**, 573.
- Kistiakowski, G. B. Photochemical Processes. **1929**, 127.
- Klar, M. Technology of Wood Distillation. **1926**, 59.
- Klarmann, E. Die Rolle der Zyklischen Aminosäureanhydride in der Neuren Strukturchemie der Proteine. **1930**, 71.
- Klein, G. Handbuch der Pflanzen-analyse. Vol. I, **1931**, 621; Vol. II, Part I, **1932**, 347; Vol. III, Part 2, **1933**, 185; Vol. IV, **1933**, 648.
- Kögel, G. Die Unsichtbaren Strahlen im Dienste der Kriminalistik. **1930**, 422.

Book Reviews—continued.

- Kolthoff, J. M. Die Massanalyse. Part 1, 1927, 663; Part 2, 1929, 257; 2nd Ed., 1931, 842.
- Kolthoff, I. M. Indicators. 1927, 254.
- Kolthoff, I. M. L'Emploi des Indicateurs Colorés. La Détermination Colorimétriques de la Concentration des Ions Hydrogènes. 3rd Ed. 1926, 218.
- Kolthoff, I. M. Volumetric Analysis. Vol. II. 1929, 691.
- Kolthoff, I. M. and Fischgold, H. Acid-Base Indicators. 4th Ed. 1933, 375.
- Kolthoff, I. M., and Furman, N. H. Potentiometric Titrations. 1927, 253; 2nd Ed., 1932, 350.
- Kolthoff, I. M., and Menzel, H. Volumetric Analysis. Vol. I. 1929, 194.
- Kopaczewski, W. Introduction à L'Étude des Colloides (État Colloidal et Ses Applications). 1926, 323.
- Kossell, A. The Protamines and Histones. 1929, 71.
- Kruyt, H. R. Colloids. 1928, 116; 2nd Ed., 1930, 777.
- Lane, J. H., and Eynon, L. Determination of Reducing Sugars by Fehling's Solution with Methylene Blue Indicator. 1934, 852.
- Lange, N. A. Handbook of Chemistry. 1935, 126.
- Langton, H. M. Blacks and Pitches. 1926, 168.
- Laurens, H. The Physiological Effects of Radiant Energy. 1934, 142.
- Lawrie, J. W. Glycerols and the Glycols. 1929, 128.
- Lawrie, L. G. Textile Microscopy. 1928, 407.
- Lehner, S. Ink Manufacture. 3rd Ed. 1926, 544.
- Leschke, E. Clinical Toxicology. 1934, 722.
- Levene, P. A. Hexosamines and Mucoproteins. 1926, 57.
- Lewis, E. J., and King, G. The Making of a Chemical. 1927, 662.
- Ling, E. R. A Text Book of Dairy Chemistry. 1930, 659.
- Lipscomb, A. G. Cellulose Acetate; Its Manufacture and Applications. 1933, 505.
- Lister Institute and Medical Research Council. Vitamins: A Survey of Present Knowledge. 1933, 121.
- Liverseege, J. F. Adulteration and Analysis of Foods and Drugs. 1932, 595.
- Lloyd, D. Jordan. The Chemistry of the Proteins and its Economic Applications. 1926, 429.
- Low, A. H. Technical Methods of Ore Analysis. 10th Ed. 1928, 361.
- Lowry, T. M. Optical Rotatory Power. 1935, 499.
- Lucas, A. Ancient Egyptian Materials. 1927, 59; 2nd Ed. 1935, 64.
- Lucas, A. Antiques: Their Restoration and Preservation. 2nd Ed. 1932, 744.
- Lucas, A. Forensic Chemistry and Scientific Criminal Investigation. 1932, 135.
- Luff, A. P., and Candy, H. C. H. A Manual of Chemistry. 1926, 166.

Book Reviews—continued.

- Lund, J. Les Relations entre les Constantes des Matières Grasses. 1927, 438.
- Lunge, G. Technical Gas Analysis. Revised by H. R. Ambler. 1934, 512.
- Lunge and Keane's Technical Methods of Chemical Analysis. 2nd Ed. Vol. III. 1931, 769.
- McAlpine, R. K., and Soule, B. A. Qualitative Chemical Analysis. 1934, 374.
- McArdle, D. W. The Use of Solvents in Synthetic Organic Chemistry. 1926, 274.
- McClendon, J. F. Manual of Biochemistry. 1934, 851.
- Macdougall, F. H. Thermodynamics and Chemistry. 2nd Ed. 1927, 560.
- Machon, H. Die Bestimmung und Bedeutung der Wasserstoffionen Konzentration in der Gerberei. 1931, 844.
- Mansfield, W. Microscopic Pharmacognosy. 1930, 531.
- Mantell, C. L. Industrial Carbon. 1929, 622.
- Manteufel, P. Serologische Verfahren der Nahrungsmitteluntersuchung. Vol. IV. 1927, 308.
- Margosches, B. M. Die Chemische Analyse. Vol. XXVI. 1929, 310.
- Margosches, B. M. Die Iodzahl schnell Methode und die Ueberiodzahl der Fette. 1928, 115.
- Marlow, G. S. W. Law and Industry. 1930, 303.
- Marshall, A. Explosives. Vol. III. 1933, 61.
- Martin, L. C., and Johnson, B. K. Practical Microscopy. 1932, 203.
- Martindale and Westcott. The Extra Pharmacopoeia. 19th Ed. Vol. I, 1928, 513; Vol. II, 1930, 229; 20th Ed., Vol. I, 1933, 309; Vol. II, 1935, 855.
- Mason, W. P. Examination of Water, Chemical and Bacteriological. 1932, 277.
- Masson, I. Three Centuries of Chemistry. Phases in the Growth of a Science. 1926, 325.
- Maunier, M. E. Les Plantes à Parfums des Colonies Françaises. 1929, 129.
- Maxted, E. B. Catalysis and its Industrial Applications. 1933, 374.
- Mellor, J. W. A Comprehensive Treatise on Inorganic and Theoretical Chemistry. Vol. VI, 1926, 113; Vol. VII, 1927, 309; Vol. VIII, 1928, 511; Vol. IX, 1929, 377; Vol. X, 1930, 773; Vol. XI, 1931, 838; Vol. XII, 1933, 251; Vol. XIII, 1934, 852.
- Mellor, J. W. Elementary Inorganic Chemistry. 1930, 662.
- Mellor, J. W. Intermediate Inorganic Chemistry. 1930, 417.
- Memmler, K. The Science of Rubber. 1935, 347.
- Memmler, K., and Others. Handbuch der Kautschuk-Wissenschaft. 1931, 71.
- Meyer, H. Nachweis und Bestimmung Organischer Verbindungen. 1933, 572.
- Michaelis, L. Practical Physical and Colloid Chemistry for Students of Medicine and Biology. 2nd Ed. 1926, 221.

Book Reviews—continued.

- Mitchell, A. D., and Ward, A. M. *Modern Methods in Quantitative Chemical Analysis*. 1933, 63.
- Mitchell, C. A. (Editor). *Recent Advances in Analytical Chemistry*. Vol. I. *Organic Chemistry*. 1931, 279. Vol. II. *Inorganic Chemistry*. 1931, 839.
- Mitchell, C. A. *Vinegar: Its Manufacture and Examination*. 2nd Ed. 1927, 178.
- Mitteilungen des Chemiker-Fachausschusses der Gesellschaft Deutscher Metallhütten- und Bergleute, e.V., Berlin. 1926, 324.
- Mond, Sir Robert, and Others. *The Bûcheum*. 1935, 65.
- Moor, C. G., and Partridge, W. *Aids to the Analysis of Foods and Drugs*. 5th Ed. 1935, 646.
- Morrell, R. S., and Wood, H. R. *The Chemistry of Drying Oils*. 1926, 432.
- Morris, T. N. *Principles of Fruit Preservation*. 1933, 507.
- Morrow, C. A. *Biochemical Laboratory Methods for Students of the Biological Sciences*. 1928, 357.
- Morton, R. A. *Radiation in Chemistry*. 1928, 560.
- Morton, R. A. *The Application of Absorption Spectra to the Study of Vitamins and Hormones*. 1935, 724.
- Müller, E. *A Laboratory Manual of Electro-Chemistry*. 1931, 621.
- Munch, J. C. *Bioassays. A Handbook of Quantitative Pharmacology*. 1931, 490.
- Murray, B. L. *Standards and Tests for Reagents and "C.P." Chemicals*. 2nd Ed. 1928, 563.
- Murray, D. S. *The Laboratory: Its Place in the Modern World*. 1934, 655.
- Murray, J. A. *The Science of Soils and Manures*. 1926, 115.
- Naish, W. A., and Clennell, J. E. *Select Methods of Metallurgical Analysis*. 1930, 158.
- Nasini, R. I. *Soffioni e i Lagoni della Toscana e la Industria Boracifera*. 1931, 215.
- Neblette, C. B. *Photography: Its Principles and Practice*. 1928, 64.
- Needham, J. *Chemical Embryology*. Vols. I, II and III. 1932, 204.
- Newman, F. H., and Searle, V. H. L. *The General Properties of Matter*. 2nd Ed. 1933, 312.
- Nierenstein, M. *The Natural Organic Tannins*. 1934, 856.
- Norris, D., Glover, P. M., and Aldis, R. W. *Lac and the Indian Lac Research Institute*. 1935, 436.
- Olsen, J. C. *Van Nostrand's Chemical Annual*. 1927, 617; 1935, 648.
- Onslow, M. W. *Practical Plant Biochemistry*. 1929, 774.
- Onslow, M. W. *The Principles of Plant Biochemistry*. Part I. 1931, 346.
- Oppenheimer, C. *Chemische Grundlagen der Lebensvorgänge*. 1935, 724.
- Organic Syntheses*. Vol. I, 1932, 675; Vol. IV, 1926, 55; Vol. V, 1926, 380; Vol. VI, 1926, 653; Vol. VII, 1928, 514; Vols.

Book Reviews—continued.

- VIII and IX, 1929, 443; Vol. X, 1930, 721; Vol. XI, 1931, 842; Vol. XII, 1933, 256; Vol. XIII, 1933, 788; Vol. XIV, 1934, 723.
- Orla-Jensen. *Dairy Bacteriology*. 2nd Ed. 1931, 775.
- Osborn, A. S. *Questioned Documents*. 2nd Ed. 1929, 501.
- Osborn, A. S. *The Problem of Proof*. 2nd Ed. 1927, 180.
- Ostwald, W. *Practical Colloid Chemistry*. 1927, 174.
- Parkinson, S. T., and Fielding, W. L. *The Microscopical Examination of Cattle Foods*. 1932, 136.
- Parrish, P., and Ogilvie, A. *Artificial Fertilisers*. Vol. I. 1927, 436.
- Parry, E. J. *Cyclopaedia of Perfumery*. 1926, 117.
- Parry, E. J. *Shellac*. 1935, 434.
- Parry, L. A. *Some Famous Medical Trials*. 1927, 665.
- Parsons, T. R. *Fundamentals of Biochemistry*. 1934, 373.
- Partington, J. R. *Origins and Development of Applied Chemistry*. 1935, 498.
- Partridge, W. *Dictionary of Bacteriological Equivalents*. French-English, German-English, Italian-English, Spanish-English. 1928, 66.
- Paterson Engineering Co. *Water Sterilisation by Gaseous Chlorine*. 1926, 545.
- Patterson, A. M. *A German-English Dictionary for Chemists*. 2nd Ed. 1935, 726.
- Peters, J. P., and Van Slyke, D. D. *Quantitative Clinical Chemistry*. Vols. I and II. 1933, 181.
- Piney, A. *Recent Advances in Microscopy, Biological Applications*. 1931, 695.
- Piney, A. *Recent Advances in Haematology*. 1929, 691.
- Plimmer, R. H. A. *Organic and Bio-Chemistry*. 1934, 68.
- Plimmer, R. H. A. *Practical Organic and Bio-Chemistry*. 1927, 107.
- Plücker, W. *Tabellen- und Rechenbuch für Nahrungsmittelchemiker*. 1931, 344.
- Plücker, W. *Untersuchung der Nahrungs- und Genussmittel, Allgemeine Methoden*. 1931, 344.
- Porter, C. W. *Molecular Rearrangements*. 1929, 261.
- Poucher, W. A. *Perfumes, Cosmetics and Soaps, with Especial Reference to Synthetics*. 2nd Ed., Vol. I, 1926, 275; Vol. II, 1927, 109; 3rd Ed., Vols. I and II, 1931, 348; 4th Ed., Vol. II, 1933, 251.
- Prausnitz, P. H. *Glas- und Keramische-Filter*. 1933, 250.
- Pregl, F. *Die Quantitative Organische Mikro-analyse*. 3rd Ed. 1930, 304.
- Pregl, F. *Quantitative Organic Micro-Analysis*. 2nd Ed. 1930, 776.
- Pregl-Festschrift. *Mikrochemie*. 1930, 358.
- Prescott, S. B., and Winslow, C. A. *Elements of Water Bacteriology*. 5th Ed. 1931, 347.

Book Reviews—continued.

- Price, E. E. Atomic Form, with Special Reference to the Configuration of the Carbon Atom. 2nd Ed. **1928**, 183.
- Pryde, J. Recent Advances in Biochemistry. **1927**, 58.
- Pummerer, R. Entwicklung und Leistungen der Organischen Strukturlehre. **1933**, 376.
- Rabinowitsch, E. Abegg's Handbuch der Anorganischen Chemie. Vol. IV, Sec. III, Part 1: Die Edelgase. **1928**, 678.
- Rabinowitsch, E., and Thilo, E. Periodisches System. **1930**, 721.
- Rakshit, J. N. Association Theory of Solution and Inadequacy of Dissociation Theory. **1932**, 682.
- Ramann, E. The Evolutions and Classification of Soils. **1928**, 681.
- Rawling, S. O. Infra-Red Photography. **1933**, 726.
- Rehwald, F. Starch Making. **1927**, 177.
- Reilly, J., Rae, W. N., Wheeler, T. S. Physico-Chemical Methods. **1926**, 487; 2nd Ed., **1934**, 510.
- Reinthal, F. Artificial Silk. **1929**, 260.
- Reiss, E. Handbuch der Biologischen Arbeitsmethoden, E. Abderhalden. Abt. IV, Teil 8, Heft 9. **1929**, 127.
- Reynolds, W. C. Atomic Structure as Modified by Oxidation and Reduction. **1928**, 676.
- Rhead, E. L. Metallurgy: An Elementary Text-Book. **1935**, 647.
- Rice, F. O. The Mechanism of Homogeneous Organic Reactions from the Physical-Chemical Standpoint. **1928**, 406.
- Richter's Organic Chemistry. Vol. I. Chemistry of the Aliphatic Series. Translated by E. N. Allott. **1934**, 653.
- Rideal, E. K. Surface Chemistry. **1926**, 598; 2nd Ed., **1930**, 601.
- Robinson, R. A. Bell's Sale of Food and Drugs Acts. 8th Ed. **1931**, 420. Erratum, **1931**, 560.
- Rogers, A. Industrial Chemistry. 4th Ed. Vols. I and II. **1926**, 601.
- Rogers, C. H. A Text-Book of Inorganic Pharmaceutical Chemistry for Students of Pharmacy and Pharmacists. **1930**, 602.
- Rosenthaler, L. The Chemical Investigation of Plants. **1931**, 489.
- Ross-Mackenzie, J. A Standard Manual of Brewing and Malting and Laboratory Companion. **1927**, 370.
- Russell, Sir E. J. Soil Condition and Plant Growth. **1927**, 257; 2nd Ed., **1932**, 344.
- Salmons, E. M. Bibliographical Survey of Vitamins, 1650-1930. **1933**, 186.
- Santangelo, E. Dizionario Pratico degli Alimenti. **1933**, 123.
- Scheibe, G., Mark, H., and Ehrenberg, R. Physikalische Methoden der Analytischen Chemie. Vol. I. Spektroskopische und Radiometrische Analyse. **1935**, 63.
- Schimpf, H. W. Essentials of Volumetric Analysis. 4th Ed. **1927**, 368.
- Schmidt, J. A Text-Book of Organic Chemistry. **1926**, 485; 2nd English Ed., **1932**, 593.

Book Reviews—continued.

- Schmidt, J. Lehrbuch der Organischen Chemie. 4th German Ed. **1930**, 300.
- Schoen, M. The Problem of Fermentation: The Facts of Hypotheses. **1929**, 440.
- Schotz, S. P. Synthetic Rubber. **1926**, 653.
- Semerano, G. Il Polarografo: Sua Teoria e Applicazioni. **1933**, 64.
- Sherman, H. C., and Smith, S. L. The Vitamins. 2nd Ed. **1931**, 491.
- Shriner, R. L., and Fuson, R. C. The Systematic Identification of Organic Compounds. **1935**, 852.
- Simmons, W. H. Soap. **1932**, 484.
- Simpkin, N., Sinnatt, F. S., and Associates. Coal and Allied Subjects: Compendium II. **1927**, 179.
- Smith, D. M. Metallurgical Analysis by the Spectrograph. **1934**, 208.
- Smith, S., and Cook, W. G. H. Taylor's Principles and Practice of Medical Jurisprudence. **1935**, 643.
- Smith, T. B. Analytical Processes: A Physico-Chemical Interpretation. **1930**, 156.
- Smithells, C. J. Impurities in Metals. Their Influence on Structure and Properties. **1928**, 620; 2nd Ed. **1931**, 351.
- Smithells, C. J. Tungsten: A Treatise on its Metallurgy Properties and Applications. **1927**, 55.
- Smyth, H. F., and Obold, W. L. Industrial Microbiology. The Utilisation of Bacteria, Yeasts and Molds in Industrial Processes. **1931**, 423.
- Snyder, H. Bread. **1930**, 725.
- Society of Chemical Industry. Reports on the Progress of Applied Chemistry. Vol. X, **1926**, 603; Vol. XI, **1927**, 369; Vol. XII, **1928**, 410; Vol. XIII, **1929**, 772; Vol. XIV, **1930**, 532; Vol. XV, **1931**, 486; Vol. XVI, **1932**, 479; Vol. XVII, **1933**, 312; Vol. XVIII, **1934**, 443; Vol. XIX, **1935**, 346.
- Society of Dyers and Colourists. Report on the Work of the Fastness Committee in Fixing Standards for Light, Perspiration and Washing. **1934**, 783.
- Southcombe, J. E. Chemistry of the Oil Industries. 2nd Ed. **1927**, 312.
- Spencer, G. L. A Handbook for Cane-Sugar Manufacturers and their Chemists. 7th Ed. **1930**, 419.
- Spencer, J. F. Elementary Practical Physical Chemistry. **1928**, 63.
- Spielmann, P. E., and Elford, E. J. Road-making and Administration. **1934**, 853.
- Spoehr, H. R. Photosynthesis. **1927**, 176.
- Sproxton, F. Cellulose Ester Varnishes. **1926**, 166.
- Standard Methods of Testing Petroleum and Its Products. 2nd Ed. **1929**, 496.
- Standard Methods for Testing Tar and Its Products. **1930**, 228.
- Stanislaus, I. V. S., and Meerbott, P. B. American Soap-Maker's Guide. **1929**, 378.
- Starck, H. P. Volumetric Analysis. **1935**, 129.
- Staudinger, H. Anleitung zur Organischen Qualitativen Analyse. 2nd Ed. **1931**, 216.

Book Reviews—continued.

- Staudinger, H. Introduction to Qualitative Organic Analysis. 1926, 488.
- Steele, C. C. An Introduction to Plant Biochemistry. 1934, 855.
- Stephenson, M. Monographs on Biochemistry Bacterial Metabolism. 1930, 355.
- Stevens, H. P. The Paper Mill Chemist. 3rd Ed. 1927, 373.
- Stevens, H. P., and Porritt, B. D. Rubber and Its Uses in Building Works. 1926, 434.
- Stewart, A. W. Recent Advances in Organic Chemistry. 5th Ed., 1927, 734; 6th Ed., 1932, 67.
- Stewart, A. W. Recent Advances in Physical and Inorganic Chemistry. 5th Ed., 1926, 541; 6th Ed., 1931, 425.
- Stiles, W. Photosynthesis. The Assimilation of Carbon by Green Plants. 1926, 326.
- Stocks, H. B. Water Analysis for Sanitary and Technical Purposes. 2nd Ed. 1932, 742.
- Stott, V. Volumetric Glassware. 1929, 497.
- Strecker, W. Qualitative Analyse auf Präparativer Grundlage. 1933, 506.
- Sugden, S. The Parachor and Valency. 1930, 226.
- Sure, B. The Vitamins in Health and Disease. 1933, 650.
- Sutermeister, E. Chemistry of Pulp and Paper-making. 2nd Ed. 1929, 626.
- Sutton, F. A Systematic Handbook of Volumetric Analysis. 12th Ed. 1935, 850.
- Swarts, F. Cours de Chimie Inorganique. 4th Ed. 1927, 369.
- Tammann, G. The States of Aggregation: The Changes in State of Matter in their Dependence upon Pressure and Temperature. 1926, 489.
- Tannenbaum, S. A. Shakspeare Forgeries in the Revels Accounts. 1929, 627.
- Tanner, F. W. Bacteriology. 1929, 688.
- Tanner, F. W. Practical Bacteriology. An Introduction to Bacteriological Technique. 1929, 375.
- Tate, F. G. H. Alcoholometry. 1930, 663.
- Tate, F. G. H. Spirit Tables. Specific Gravity at 80°/80° F. 1933, 723.
- Thaysen, A. C., and Bunker, H. J. The Microbiology of Cellulose, Hemicelluloses, Pectin and Gums. 1927, 500.
- Thaysen, A. C., and Galloway, L. D. The Microbiology of Starch and Sugars. 1930, 723.
- Thews, E. R. Metallurgy of White Metal Scrap and Residues. 1930, 776.
- Thompson, R. C. On the Chemistry of the Ancient Assyrians. 1926, 112.
- Thornton, W. M., Junr. Titanium. With Special Reference to the Analysis of Titaniferous Substances. 1927, 736.
- Thorpe, Sir E. A Dictionary of Applied Chemistry. Vol. VI, 1926, 374; Vol. VII, 1928, 181.
- Thorpe, J. F., and Whiteley, M. A. A Student's Manual of Organic Chemical Analysis, Qualitative and Quantitative. 1926, 55; 1927, 312.

Book Reviews—continued.

- Thorpe, J. F., and Whiteley, M. A. Thorpe's Dictionary of Applied Chemistry. Supplement. Vol. I, 1934, 781; Vol. II, 1935, 645.
- Thresh, J. C., Beale, J. F., and Suckling, E. V. The Examination of Waters and Water Supplies. 4th Ed. 1933, 727.
- Tinkler, C. K., and Masters, H. Applied Chemistry. Vol. I. Water, Detergents, Textiles, Fuels, etc. 2nd Ed., 1929, 311; 3rd Ed., 1935, 501; Vol. II (Foods), 1926, 543; 2nd Ed., 1932, 480.
- Treadwell, F. P., and Hall, W. T. Analytical Chemistry. Vol. I. Qualitative Analysis. 7th English Ed., 1931, 349; 8th Ed., 1932, 678.
- Türkel, S. Atlas der Bleistiftschrift. 1930, 603.
- Türkel, S. Fälschungen. 1931, 141.
- Turnbow, G. D., and Raffetto, L. A. Ice Cream. 1928, 408.
- Tutin, J. The Atom. 1934, 509.
- Twyman, F., and Aillsopp, C. B. The Practice of Absorption Spectrophotometry. 2nd Ed. 1935, 127.
- Van Nieuwenburg, C. J., and Dulfer, I. G. A Short Manual of Systematical Qualitative Analysis by means of Modern Drop Reactions. 1934, 66.
- Viganó, L. Practical Serology. 1928, 562.
- Villavecchia, G. V. Dizionario di Merceologia e di Chimica Applicata. Vols. I and II, 1930, 357; Vol. III, 1932, 69; Vol. IV, 1932, 548.
- von Philipsborn, H. Tabellen zur Berechnung von Mineral- und Gestein-analysen. 1933, 429. See also list of Errata.
- Wade, J. Introduction to the Study of Organic Chemistry. 1926, 376.
- Waksman, S. A., and Starkey, R. L. The Soil and the Microbe. 1932, 66.
- Waldschmidt-Leitz, E. Enzyme Actions and Properties. 1930, 69.
- Wallis, T. E. Practical Pharmacognosy 1926, 56.
- Walton, R. P. A Comprehensive Survey of Starch Chemistry. Vol. I. 1928, 561.
- Ware, J. C. Analytical Chemistry. 1932, 413.
- Ware, J. C. Essentials of Qualitative Chemical Analysis. 1929, 438.
- Ware, J. C. The Chemistry of the Colloidal State. 1930, 471.
- Washington, H. S. The Chemical Analysis of Rocks. 4th Ed. 1931, 278.
- Weber, L. E. The Chemistry of Rubber Manufacture. 1926, 433.
- Weiser, H. B. Colloid Symposium Annual. Vol. VII. 1930, 421.
- Weiser, H. B. Inorganic Colloid Chemistry. Vol. I. 1933, 787.
- Weston, F. E. Carbon Compounds: A Scheme for the Detection of the more Common Classes. 6th Ed. 1935, 435.
- Weygand, C. Quantitative Analytische Mikromethoden der Organischen Chemie in vergleichender Darstellung. 1932, 415.
- Wheeler, E. The Manufacture of Artificial Silk. 1928, 623; 2nd Ed., 1931, 213.

Book Reviews—continued.

- Whipple, G. C. The Microscopy of Drinking Water. 4th Ed. **1928**, 359.
- Wiley's "Principles and Practice of Agricultural Analysis." Vol. II. Fertilisers and Insecticides. 3rd Ed. Edited by C. A. Browne and W. W. Skinner. **1933**, 57.
- Williams, R. J. An Introduction to Biochemistry. **1932**, 481.
- Wilson, J. A. The Chemistry of Leather Manufacture. 2nd Ed. Vol. I, **1928**, 463; Vol. II, **1930**, 230.
- Winton, A. L., and K. B. Structure and Composition of Foods. Vol. I. Cereals, Nuts and Oil Seeds. **1932**, 545.
- Wood, J. K. Chemistry of Dyeing. 2nd Ed. **1927**, 255.
- Wood, T. B. A Course of Practical Work in Agricultural Chemistry for Senior Students. New Ed. **1933**, 252.
- Worrall, R. L. Table of Incompatibles. **1935**, 348.
- Wright, C. H. Soil Analysis. **1934**, 654.
- Yoe, J. H. Photometric Chemical Analysis. Vol. I, **1929**, 193; Vol. II, **1929**, 564.
- Bookbinding** leathers; Decay of —. R. W. Frey and I. D. Clarke, **1931**, 762.
- leathers; English —. R. W. Frey, L. R. Leinbach and E. O. Reed, **1929**, 364.
- leathers; Note on the deterioration of —. F. P. Veitch, R. W. Frey and L. R. Leinbach, **1928**, 241.
- leathers; Polluted atmosphere a factor in the deterioration of —. F. P. Veitch, R. W. Frey and L. R. Leinbach, **1926**, 373.
- leathers; Preservation of —. R. W. Frey and F. P. Veitch, **1931**, 559.
- Books**: Care and custody of —. F. W. Clifford, **1926**, 597.
- Borate**: Reaction of sugars and —. II. Optical activity of sugars in borax solution and the configuration of mutarotatory isomers. M. Levy and E. A. Doisy, **1930**, 50.
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Breadmaking: Practice and Science of —. D. W. Kent-Jones (Review), **1935**, 203

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Brewer's Yeast: See **Yeast**.

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Brewing and Malting; A Standard Manual of — and Laboratory Companion. (Review), J. Ross-Mackenzie, **1927**, 370.

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Report of the Public Analyst for the City and County of — for the year 1928. E. Russell, **1929**, 591; for 1929, **1930**, 685; for 1930, **1931**, 599; for 1932, **1934**, 30; for 1933, **1934**, 751; for 1934, F. E. Needs, **1935**, 612.

British Association for the Advancement of Science; Report of Annual Meeting, 1933, **1934**, 514. Report of Annual Meeting, 1934, **1935**, 206.

British Cast Iron Research Association: Report No. 72. Recommended methods for sampling and analysis of foundry products. **1930**, 198.

British Guiana: Report of the Government Analyst for — for 1933. K. Wallis, **1934**, 627; **1935**, 181; for 1934, **1935**, 619.

British Honduras: Cassava products from —. **1935**, 46.

Zamia furfuracea starch from —. **1935**, 46.

British Museum Laboratory: Report of —. **1928**, 223.

British Pharmaceutical Codex: Report of Dressings Sub-Committee. **1934**, 42.

Reports of Revision Committee. **1934**, 114.
 Review of —. **1934**, 725.

British Pharmacopoeia, 1932: (Review), **1932**, 805.

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B.D.H. Guide to —. (Review), **1932**, 809.
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 Drug Houses of Australia, Guide to —. **1933**, 314.

British Standards Institution Specifications:—

No. 496: Sampling and Analysis of Coke.
 No. 501: Report of Metric Units of Volume.

No. 502: Sampling of Large and Run-of-Mine Coal. No. 503: Creosote for Fuel in

Furnaces. No. 506: Methyl Alcohol (Methanol). No. 507: Ethyl Alcohol.

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- Brom-Iodo** compounds precipitated from fish oils. S. Ueno and M. Iwai, **1933**, 174.

- 5-Bromo-2-Furoic Acid**: Volumetric determination of — with standard bromate solution. E. E. Hughes and S. F. Acree, **1934**, 712.
- Bromphenol Blue** as adsorption indicator in the titration of chloride and bromide with mercurous nitrate. I. M. Kolthoff and W. D. Larson, **1934**, 847.
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- Bucheum**: The —. Sir Robert Mond and Others. (Review), **1935**, 65.
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- Buffers** for lactic fermentation. D. W. Steuart, **1934**, 402.
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- Building** materials; Examination of —. **1928**, 600.

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- Building Research Board:** Report for 1933. 1934, 755. Report No. 17. Determination of free calcium oxide and hydroxide. B. Bakewell and G. E. Bessey, 1932, 575.
- Buildings:** Corrosion of lead in ——. Technical Paper No. 8. F. L. Brady, 1935, 321.
- Bulgarian honey and beeswax.** J. Zoneff, 1927, 598.
- Bulir's Reaction** for rancidity in fats. 1932, 319.
- Bull Frog:** Fatty oil of the ——. S. Tasaki and J. Yamamoto, 1930, 645.
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- Bunya Pine:** Distinction between woods of hoop pine and ——. W. E. Cohen, 1933, 636.
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- Burettes:** "Greasy" ——. W. Lowson, 1928, 113.
- Burgundy Powder:** Specification for ——. 1934, 695.
- Burma Food and Drugs Act, 1928;** Investigations on milk standards under ——. E. H. Bunce, 1932, 449.
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- Burmese buffalo milk.** 1932, 451.
- Burnley:** Appointment of J. S. Wilson as Additional Public Analyst for County Borough of ——. 1931, 530.
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- Burns:** tannic acid treatment of —; Stability of aqueous solutions of gallotannin, with reference to. W. A. Woodard and A. N. Cowland, 1933, 553.
- Burrell** methane indicator; Detection of petroleum vapour with the ——. G. W. Jones and W. P. Yant, 1926, 104.
- Burton-on-Trent:** Appointment of H. T. Lea as Public Analyst for County Borough of ——. 1934, 344.
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- Bush Rum:** Examination of ——. 1935, 619.
- Bush Sickness:** Characteristics of limonites used in cure and prevention of ——. R. E. R. Grimmett and F. B. Shorland, 1935, 87.
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- Butanol:** British Standard Specification, No. 508. 1933, 730.
- Butea Frondosa:** Oil from seeds of ——. M. C. Tummin Katti and B. L. Manjunath, 1930, 283.
- Butesin:** New colour reaction for ——. 1927, 41.
- Butter:** adulteration in —; Dyes as an indication of. D. Henville and W. M. Paulley, 1929, 413.
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- fat; Studies in milk secretion based on the variations and yields of milk and — produced at morning and evening milkings. S. Bartlett, **1929**, 179.
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- fats; Fatty acids of Egyptian —. H. Atkinson, **1928**, 520.
- fats; Glyceride structure of —. T. P. Hilditch and J. M. Sleightholme, **1931**, 541.
- fats with border-line Reichert-Meissl value; Phytosteryl acetate tests as a routine method in the examination of —. H. Hawley, **1933**, 529.
- Fatty acids of —. **1932**, 112.
- fatty acids in —; Isolation and identification of some hitherto unrecorded. A. W. Bosworth and J. B. Brown, **1934**, 183.
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- Fluorescence of milk and — in ultra-violet light. G. W. Baker and S. Taubes, **1932**, 375.
- from the milk of sheep and goats in Greece. T. G. Stathopoulo, **1933**, 762.
- in margarine; Determination of —. L. V. Cocks and E. Nightingale, **1928**, 322.
- Influence of salts associated with common salt on —. F. E. Budagjan and W. P. Pawlow, **1930**, 283.
- Iodine and thiocyanogen values of Irish —. P. S. Arup, **1932**, 610.
- Irish —; Composition of. Distribution of the volatile acids groups among the glycerides of — fat. P. Arup, **1928**, 641.

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- Relation of the colour and vitamin *A* content of — to the nature of the ration fed.
- I. Influence of the ration on the yellow colour of —. S. J. Watson, G. Bishop and J. C. Drummond, II. The carotenoid and vitamin *A* contents of butter. A. E. Gillam and I. M. Heilbron, **1934**, 708.
- Rum and — toffee. (Legal Notes), **1928**, 93.
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- Separation of diacetyl from — by distillation. **1935**, 654.
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- Thiocyanogen value of Indian —. U.S. Nudhalakoti and K. C. Mukherji, **1935**, 767.
- Transition points of mixtures of cow's — and cocoa —. D. W. Horn and M. A. Wilson, **1934**, 350.
- Variations in the component fatty acids of — due to changes in seasonal and feeding conditions. T. P. Hilditch and J. J. Sleightholme, **1930**, 702.
- vitamin *A* and carotene in —; Relative biological efficiencies of the. R. G. Booth, S. K. Kon and A. E. Gillam, **1935**, 333.
- vitamin *A* in —; Determination of. G. E. Morgan and K. H. Coward, **1931**, 757.
- vitamin *A* in —; Test for. A. Andersen and E. Nightingale, **1929**, 481.
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- Vitamin *D* activity of —. I. Chemical differentiation of the antirachitic factor of autumn and winter — from irradiated ergosterol and the vitamin *D* of cod-liver oil. S. K. Kon and R. G. Booth, **1934**, 53.
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- Buttermilk**: Cultured —. U.S.A. Food Inspection Decision No. 210. **1927**, 547.
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- Butyl Acetate**: Distinction of isoamyl, isobutyl and *n*-butyl alcohols from amyl and — by means of ammonium cobalthiocyanate. H. Weber, **1930**, 208.
- Butyl Alcohol**, ethyl and iso-propyl alcohols and acetone in fermentation liquors; Quantitative determination of —. G. L. Stahly, O. L. Osburn and C. H. Werkman, **1934**, 319.
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- Butyl Alcohol**: Normal —. British Standard Specification No. 507. **1933**, 730.
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- Butyl Chloride**, with diethyl phthalate in ethyl alcohol; Determination of small proportions of —. R. W. Hoff, **1931**, 683.
- 2,3-Butylene-glycol** in the blood of the higher animals; Presence of acetylmethylcarbinol and —. M. Lemoigne and P. Monguillon, **1930**, 642.
- 2,3-Butylene-glycol** in wine and fruit wine; Origin, occurrence and detection of —. J. Pritzker and R. Jungkuz, **1931**, 258.
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- Cabbage**: calcium and phosphorus in —; Water-soluble content of. W. H. and C. B. Peterson, **1927**, 93.
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- Caffeine-Salicylic Acid** as a molecular compound. N. Schoorl, **1929**, 550.
- Cajuput Oil:** cineole in —; Estimation of. **1927**, 276.
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- Calcination:** Substitution of centrifugation for filtration and — in the gravimetric determination of tin and lead in their alloys. M. Foà, **1927**, 364.
- Calcite:** Spot test to distinguish aragonite and —. F. Feigl and H. Leitmeier, **1933**, 642.
- Calcium** and vitamin *D* in foods. E. F. Kohman and Others, **1934**, 710.
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for the human subject; Comparison of raw, pasteurised evaporated and dried milks as sources of phosphorus and —. M. M. Kramer, E. Latzke and M. M. Shaw, **1928**, 607.
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- Micro-determination and separation of magnesium and —. K. L. Maljaroff, **1932**, 64.
- micro-determination of —. New. A. Astrey, M. Mousseron and N. Boisson, **1930**, 297.
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- Reagent for eliminating the interference due to — in the volumetric Fehling's titration for invert sugar. J. G. N. Gaskin, **1935**, 318.
- Separation of beryllium from —. **1929**, 367.
- Separation of magnesium and — by the molybdate method. R. C. Wiley, **1931**, 417.
- Separation of magnesium, phosphoric acid and —. E. Brintzinger and E. Jahn, **1934**, 646.
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- Calcium Carbide** as a means of determining water in organic substances. A. Cantzler and S. Rothschild, **1927**, 606.
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- Calcium Carbonate**: Determination of calcium by conversion of the oxalate into —. H. W. Foote and W. M. Bradley, **1926**, 269.
- Calcium Cyanamide**: Potentiometric titration of —. H. Sinozaki, **1933**, 491.
- Calcium Cyanide**: Specification for —. **1934**, 696.
- Stability of —. **1927**, 32.
- Calcium Fluoride** method for determining fluoride, with special reference to the analysis of nickel-plating solutions. S. G. Clarke and W. N. Bradshaw, **1932**, 138.
- Calcium Gluconate**: Polarimetric method for determining —. H. J. Fisher and E. M. Bailey, **1932**, 727.
- Calcium Hydride**: Gasometric determination of water (moisture) by means of —. O. Notevarp, **1930**, 344.
- Calcium Hydroxide**: Determination of free —. B. Bakewell and G. E. Bessey, **1932**, 575.
- Calcium Hypochlorite** as a volumetric oxidising agent. Determination of ammonia. I. M. Kolthoff and V. A. Stenger, **1935**, 341.
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- Calcium Nitride**: total nitrogen in —; Determination of. W. Lepper, **1930**, 528.
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- Determination of calcium by conversion of the — into the carbonate. H. W. Foote and W. M. Bradley, **1926**, 269.
- Precipitation and determination of magnesium hydroxyquinolate in presence of —, and its application to the analysis of Portland cement. J. C. Redmond, **1933**, 781.
- Calcium Oxide**: Determination of free —. B. Bakewell and G. E. Bessey, **1932**, 575.
- Calcium Pectate** method for determining pectin; Modification of —. A. M. Emmett and M. H. Carré, **1926**, 307.
- Calcium Phosphate**: Behaviour of indicators in the titration of —. R. T. Thomson, **1928**, 315.
- Flour containing acid —. (Legal Notes), **1927**, 30.
- lead in —; Rapid determination of small quantities of. J. R. Nicholls, **1931**, 594.
- lead in acid —; Determination of. D. W. Kent-Jones and C. W. Herd, **1933**, 152.
- Separation of aluminium as phosphate in presence of —, with special reference to the action of milk on aluminium. A. G. C. Gwyer and N. D. Pullen, **1932**, 704.
- Calcium Sulphate**: Microchemical test for —. **1934**, 722.
- Calculi**: Analysis of small urinary —. C. Newcomb, **1930**, 399.
- Calender** Effect and Shrinking Effect of Unvulcanised Rubber. (Review), W. de Visser, **1927**, 256.
- Calgon** as reagent for eliminating the interference due to calcium in the volumetric Fehling's titration for invert sugar. J. G. N. Gaskin, **1935**, 318.
- Calibration** of collodion membranes; Investigations into the standardisation and —. I. C. Lundsgaard and S. A. Holbil, **1926**, 428.
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- California** bay tree; Capric acid from the seed fat of —. C. R. Noller, I. J. Millner, and J. J. Gordon, **1933**, 299.
- Californian** honeys. W. Bartels and A. Fauth, **1934**, 44.
- sardine oil; Iodine value of a commercial —. M. S. Dunn and B. S. Hollombe, **1927**, 483.
- walnut oil; Composition of —. G. S. Jamieson and R. S. McKinney, **1929**, 241.
- Calophyllum Inophyllum** nut oil (dilo oil). K. W. R. Glasgow, **1932**, 530.

- Calorific** value; British Standard definitions of gross and net ——. **1934**, 144.
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- Calorimeter** bombs; Stainless steel ——. **1934**, 36.
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Thomas recording gas ——. Fuel Research Paper No. 20. **1928**, 385.
- Calorimeters**; Benzoic acid as a standard for the standardisation of combustion ——. P. E. Verkade, **1929**, 124.
- Calorimetric** investigations. Benzoic acid as a standard for the standardisation of combustion calorimeters. P. E. Verkade, **1929**, 124.
- Calorimetry**: Gas ——. (Review), C. G. Hyde and F. E. Mills, **1933**, 124.
- Calotropis Gigantea**: Tests for madar juice (—) and for snake venom. D. N. Chatterji, **1930**, 683.
- Camberwell**: Appointment of M. Priest as Public Analyst for Metropolitan Borough of ——. **1930**, 383.
- Camel**: Component fatty acids and glycerides of the milk-fat of the Indian ——. D. R. Dhingra, **1934**, 554.
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- Camera**: Finch Electron-diffraction ——. **1934**, 584.
- Camphor**: Bactericidal efficiency of menthol and ——. L. Gershenfeld and R. E. Miller, **1934**, 55.
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Use of — in cryoscopy for determining the molecular weight of arsenic acids. C. Schuster, **1934**, 508.
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- Camphor Oil** as anti-ferment. **1928**, 612.
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- Camphorated Oil**: **1930**, 389; **1935**, 686.
- Canada**: Report of the Dominion Chemist (F. T. Shutt) for the year ending March 31st, **1925**; **1926**, 519; March 31st, **1926**, **1927**, 537; March 31st, **1927**, **1928**, 596; March 31st, **1929**, **1930**, 389; March 31st, **1930**, **1932**, 34.
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- Cananga Oil**: Adulterated ——. W. H. Simmons, **1934**, 644.
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- Cancer-Producing** substances; Further experiments on —. E. L. Kennaway, **1930**, 460.
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- Candelilla Wax**: Hydrocarbons of —. F. J. E. Collins, **1935**, 269.
- Candlenut Oil**: Crystalline bromides of —. **1926**, 389.
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- Cane Sugar**: See Sugar.
- Cannabis Indica** poisoning. **1935**, 760; in Madras, **1928**, 536.
- Cannabis Sativa** preparations; Bio-assay of ——. **1926**, 42.
- Canned** cranberries; Discoloration of —. F. W. Morse, **1927**, 548.
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- Canned**—*continued*.
 tomatoes; Standard for —. U.S. Dept. of Agriculture Regulations, **1932**, 108.
- Canning**: anthocyanin pigments in —; Behaviour of. C. W. Culpepper, **1927**, 648. Experimental work on —. **1935**, 689. Hydrogen swells in —. **1935**, 695. of foods; Investigations into —. **1934**, 698.
- Cannizzaro's Reaction**: Method of determining aromatic aldehydes, based on —. L. Palfray, S. Sabetay and D. Sontag, **1932**, 472.
- Cans**: Bulging — of loganberries. W. D. Bigelow, **1927**, 638. Measurement of vacuum in sealed —. **1935**, 697.
- Cantharides**: cantharidine in —; Determination of. R. Eder and W. Schreiner, **1927**, 40.
- Cantharidin**: Colorimetric determination of —. G. Denigès, **1934**, 496. in cantharides; Determination of —. R. Eder and W. Schreiner, **1927**, 40. New reactions of —. H. W. Van Urk, **1929**, 425.
- Canvas**: Protection of — from fungus. **1926**, 301.
- Cape Cod cranberries**; Iodine content of —. F. W. Morse, **1928**, 659.
- Capillarity** measurements; Application of — to fatty acid mixtures. R. Dubrisay, **1926**, 111.
- Capillary** activities and germicidal powers of certain essential oils. S. Rideal, E. K. Rideal and A. Sciver, **1928**, 553. analysis. Identification of small amounts of formaldehyde with dimethylhydro-resorcinol. L. Kofler and H. Hilbck, **1930**, 528. analysis; Use of the analytic quartz lamp in —. **1927**, 709. Chemistry; Colloid and —. (Review), H. Freundlich, **1926**, 598. index of certain vegetable oils. H. Marcelet, **1934**, 576. tube viscometer for measuring the viscosity of solutions of cellulose in cuprammonium hydroxide solution. R. W. Kinkead, **1931**, 692.
- Caporite** (crystallised calcium hypochlorite): Relative effectiveness of — as disinfectant. **1926**, 259.
- Capsaicin Acid** from the seed fat of the California bay tree. C. R. Noller, I. J. Millner and J. J. Gordon, **1933**, 299.
- Capsaicin Acid** in edible fats; Determination of —. J. Grossfeld and F. Battay, **1931**, 750. Lauric acid in presence of —. **1929**, 108.
- Capsaicin**: Extraction of — and its determination in capsicum fruit and oleoresin. L. F. Tice, **1933**, 623. New reaction for —. K. von Fodor, **1931**, 407.
- Capsanthin** in ground paprika products; Determination of —. L. Benedek, **1934**, 188.
- Capsicum**: Bio-assay of —. J. C. Munch **1930**, 638. Extractives of —. H. Berry **1935**, 625. fruit and oleoresin; Determination of capsaicin in —. L. F. Tice **1933**, 623.
- Caramel** in vanilla oleoresins, **1926**, 254. sulphur dioxide in —; Determination of. **1927**, 352.
- Caramelisation**: Application of the determination of inulin and laevulose to the problem of —. C. I. Kruisheer, **1933**, 231.
- Caraway**: Volatile oil in —. **1934**, 617.
- Caraway Oil** as anti-ferment. **1928**, 612. carvone in —; Hydroxylamine method of determining. C. T. Bennett and T. T. Cocking, **1931**, 79.
- Caraway Seeds**: Boron compounds in —. **1929**, 18.
- Carbamate** reagent for copper in organic matter. **1931**, 685.
- Carbamides**: Colour reactions of — with diacetyl and diacetyldioxime. G. S. Smith, **1935**, 171.
- Carbazides**: Colour reactions of — with diacetyl and diacetyldioxime. G. S. Smith, **1935**, 171.
- Carbazotic Acid** in foodstuffs; Detection of —. **1927**, 585.
- Carbethoxy-Cyanoguanidine**: **1927**, 248.
- Carbohydrate** contents of the proteins in the white of hens' eggs. M. Sørensen, **1934**, 701 groups in proteins; Application of the orcinol reaction to the determination of the nature and amount of —. M. Sørensen and G. Haugaard, **1933**, 492. in rye flour; New —. J. Tillmans, **1929**, 43. metabolism. **1935**, 248. metabolism in health and disease. H. MacLean, **1926**, 429. metabolism of fish. **1932**, 165. metabolism; Rôle of copper in —. H. L. Keil and V. E. Nelson, **1934**, 764. partition in Philippine rice bran. J. Marafion and L. Cosme, **1935**, 827.
- Carbohydrate Acetates**: Determination of the acetyl content of —. H. L. Parsons, **1933**, 364.
- Carbohydrates**: Collected references. II. A. Wasitzky, **1935**, 274. Errors introduced into the determination of lignin by the presence of —. A. G. Norman and S. H. Jenkins, **1935**, 336. in cereal products; Influence of peptic digestion in determining total —. B. G. Hartmann and F. Hillig, **1927**, 160. Micro-determination of — in pure solutions, and in animal material. Z. Dische, **1932**, 410. of tobacco and their significance. C. Pyriki, **1935**, 185. reaction between tannin and —; Nature of. H. B. Stocks and C. V. Greenwood, **1927**, 170. Sensitive means of detecting reducing —. P. K. Bose, **1932**, 264. The —. 5th Ed. E. F. and K. F. Armstrong (Review), **1935**, 128. Use of certain — and glucosides in the differentiation of members of the salmonella group of bacilli. F. Wokes and J. H. Irwin, **1927**, 604. Utilisation of — by honey bees. E. F. Phillips, **1928**, 46; by honey bee larvae, L. M. Bertholf, **1928**, 47.

- Carbolic powder**; Valuation of —. C. E. Coulthard, **1931**, 251.
- Carbolic Acid**: British Standard Specifications for —. **1934**, 144.
- in commercial cresol; Detection of —. A. J. Ware, **1927**, 483.
- in pharmaceutical preparations; Determination of —. J. Rae, **1930**, 398.
- in soils; Occurrence of elementary —. G. W. Robinson and W. McLean, **1930**, 712.
- in steel; Micro-determination of —. **1930**, 772.
- lysol "free from —;" Sale of. (Legal Notes), **1926**, 571.
- New specific test for distinguishing —, the cresols and certain other phenols. A. H. Ware, **1927**, 335.
- nitrogen ratio of soil organic matter. W. McLean, **1930**, 712.
- Sale of — in an unlabelled bottle. (Legal Notes), **1928**, 592.
- Semi-micro combustion method for determining hydrogen and —. W. M. Lauer and F. J. Dobrovoly, **1930**, 467.
- Carbon and Nitrogen Cycles in Soils**; Influence of Fertilisers on —. P. Kamerman and H. Clintworth, **1935**, 130.
- and nitrogen on the same soil sample; Determination of —. B. E. Brown, **1927**, 487.
- Assimilation of — by green plants. Photosynthesis. (Review), W. Stiles, **1926**, 326.
- Atom; Atomic Form, with special reference to the Configuration of the —. (Review), E. E. Price, **1928**, 183.
- Atomic weight of —. **1928**, 160; **1929**, 295; **1933**, 230; **1934**, 414, 547.
- Compounds; Pyrolysis of —. (Review), C. D. Hurd, **1929**, 689.
- Compounds; Scheme for the Detection of the More Common Classes of —. 6th Ed. F. E. Weston. (Review), **1935**, 435.
- deposit from ethyl petrol. **1929**, 540.
- determinations with the use of a metal tube. S. Avery, **1929**, 66.
- gunpowder — in the tissues; Identification of. **1935**, 761.
- in an atmosphere of nitrogen; Micro-determination of hydrogen and —. J. B. Niederl and B. Whitman, **1932**, 740.
- in dilute organic liquids; Determination of —. O. Kauffmann-Cosla, **1927**, 45.
- in graphited cup greases; Determination of —. F. Heathcoat, **1934**, 28.
- in high sulphur steels; Determination of — by direct combustion. H. A. Bright and G. E. F. Lundell, **1931**, 205.
- in mercury compounds; Micro-combustion of —. M. Furter, **1931**, 341.
- in organic compounds; New micro method for determining —. H. L. Lochte, **1926**, 364.
- in organic substances; Rapid determination of —. R. Vandoni and M. Algrain, **1928**, 298.
- in pig iron; Determination of graphite and combined —. W. A. Burford and W. Bader, **1927**, 104.
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- Carbon—continued.**
- Industrial —. (Review), C. L. Mantell. **1929**, 622.
- Micro-combustion of —. P. L. Kirk and A. G. McCalla, **1933**, 55.
- Micro-determination of — by the use of chromic acid oxidation. A. Boivin, **1929**, 117.
- Micro-determination of — by the wet method. I. H. Lieb and H. G. Krainick, **1932**, 273.
- organic — in sewage; Determination of. E. V. Mills, **1932**, 56.
- organic — in soils; Determination of. G. W. Robinson, W. McLean and R. Williams, **1929**, 360.
- Pregl's micro-combustion of hydrogen and —, without the use of air. F. Vetter, **1932**, 541.
- Pre-heater for use in the Pregl micro-combustion of hydrogen and —. W. F. Bruce, **1935**, 844.
- Use of activated — for removing small quantities of arsenic chloride from hydrochloric acid. S. E. Coalstad, **1934**, 716.
- Carbon Black** test for comparing the deflocculating power of soaps. R. M. Chapin, **1927**, 102.
- Carbon Dioxide**: Absence of stratification and rapidity of mixing of — in air samples. T. M. Carpenter and E. L. Fox, **1927**, 493.
- and cold storage, **1933**, 227.
- as inhibitor of bacterial growth. **1934**, 176.
- Colorimetric method for determining —. E. M. Emmert, **1931**, 836.
- Conductivity method for determining —. L. E. Bayliss, **1927**, 557.
- Effect of — on bacterial growth, with special reference to the preservation of fish. Part I. F. P. Coyne, **1932**, 399.
- formed by the action of urease; Determination of urea by gasometric measurement of —. D. D. Van Slyke, **1927**, 551.
- gaseous mixtures containing hydrogen sulphide, —, hydrogen arsenide or phosphide, and acetylene; Determination of constituents of. M. Wilmet, **1928**, 112.
- in baking powder and self-raising flour; Method for determining "available" and "total" —. F. W. Edwards, E. B. Parkes and H. R. Nanji, **1935**, 814.
- in baking powder; Available —. (Legal Notes), **1928**, 155.
- in baking powder; Direct determination of available —. M. R. Coe, **1931**, 327.
- in beer; Determination of —. J. L. Baker and H. F. E. Hulton, **1934**, 419.
- in carbonates; Determination of —. S. Back, **1927**, 76; L. H. Trace and C. O. Harvey, **1927**, 76; T. Callan, **1927**, 222; J. R. I. Hepburn, **1927**, 276.
- in carbonates in soil; Determination of —. A. Riad, **1928**, 486.
- in carbonates; New and simple method for determining —. J. R. I. Hepburn, **1926**, 622.
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- Carbon Disulphide:** Chloramine in the determination of —. 1934, 437.
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 in air containing hydrogen sulphide; Detection and determination of methyl mercaptan and —. J. F. Reith, 1934, 197.
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 in benzene; Determination of —. T. Callan, J. A. R. Henderson and N. Strafford, 1932, 590.
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 in gas (small volumes); Determination of traces of —. W. J. Huff, 1926, 156.
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- Carbon Monoxide:** Absorption of — by cuprous ammonium salts. W. Gump and I. Ernst, 1930, 464.
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 as a tissue poison. J. B. S. Haldane, 1928, 51.
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 in air; Detection of small amounts of —. W. Ackermann, 1933, 297.
 in blood; Determination of —. W. M. M. Pilaar, 1928, 612; 1929, 553.
 in blood and air; Pyrotannic acid method for determining —. R. R. Sayers and W. P. Yant, 1926, 99.
 in blood; Determination and detection of —. A. A. Christman and E. L. Randall, 1933, 789.
 in blood; Gasometric determination of small amounts of —; and its application to blood volume studies. D. D. van Slyke and F. S. Robscheit-Robbins, 1927, 291.
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- Carbon Steel:** arsenic in —. Determination of. 1929, 527.
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- Carbon Tetrachloride** as a reagent for phenols; Use of —. G. E. Trease and H. Tingey, 1926, 534.
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 in technical solvents; Colorimetric detection of —. H. H. Weber, 1934, 57.
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- Carbonate Number** in water analysis. O. Mayer, 1931, 766.
- Carbonates:** carbon dioxide in —; Determination of. S. Back, 1927, 76; L. H. Trace and C. O. Harvey, 1927, 76; T. Callan, 1927, 222; J. R. I. Hepburn, 1927, 276.
 carbon dioxide in —; New and simple method of determining. J. R. I. Hepburn, 1926, 622.
 in soil; Determination of carbon dioxide in —. A. Riad, 1928, 486.
 Microchemical tests for —. F. Feigl and P. Krumholz, 1930, 655.
- Carbonic Acid** radicle; Rapid quantitative removal and determination of the —. F. W. Foreman, 1928, 299.
- Carbonisation:** Assay of coal for — purposes. Fuel Research Paper No. 21, 1929, 233; Fuel Research Paper No. 24. J. G. King and L. J. Edgcombe, 1930, 279.
 of coal; "Unsaturated hydrocarbons" in the gases from the —. A. B. Manning, J. G. King and F. S. Sinnatt, 1928, 224.
- Carbonyl** compounds; Identification of — with 2: 4-dinitrophenylhydrazine. J. Ferrante and A. Bloom, 1933, 714.
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- content of organic compounds; Estimation of phenylhydrazine. S. Marks and R. S. Morrell, **1931**, 508. Erratum, **1931**, 620.
- group in organic compounds; Accurate general iodimetric method for determining the ——. E. G. R. Ardagh and J. G. Williams, **1926**, 102.
- in aldehydes and ketones; Determination of ——. G. W. Ellis, **1927**, 428.
- Carbonyl Number** of wines. H. Strache and A. Brandl, **1928**, 290.
- Carbosine**: Determination of ——. W. M. Clifford and V. H. Mottram, **1929**, 51.
- Carboxyl Group**: Detection and determination of the — by distillation with zinc dust in a stream of hydrogen. A. W. van der Haar, **1930**, 61.
- Carboxylic Acids** and their derivatives; Micro-chemical detection of ——. **1935**, 57.
- Carcinogenic hydrocarbons** and their relationship to the sterols. J. W. Cook, **1935**, 830.
- Cardamoms**: Colour of compound tincture of ——. R. R. Bennett and G. Middleton, **1926**, 525.
- Compound tincture of ——. **1935**, 753.
- Volatile oil in ——. **1934**, 617.
- Cardiac glucosides**; Examination of samples of ——. **1930**, 196.
- Cardiazol**: Analytical chemistry of ——. J. J. L. Zwikker, **1934**, 833.
- Cardiff**: Appointment of S. Dixon as Public Analyst for County Borough of ——. **1929**, 285.
- Cardigan**: Appointment of J. Evans as Agricultural Analyst for ——. **1932**, 163.
- Carminic Acid** test for zirconium. **1931**, 209.
- Caro's Acid** and hydrogen peroxide in presence of perdisulphuric acid; Volumetric determination of ——. A. J. Berry, **1933**, 464.
- Carotenase**: Transformation of carotene into vitamin *A in vitro*. H. S. Olcott and D. C. McCann, **1932**, 53.
- Carotene**: absorption of vitamin *A* and —; Observations on. J. C. Drummond, M. E. Bell and E. T. Palmer, **1935**, 564.
- Alleged contamination of — by vitamin *A*. N. S. Capper, **1930**, 459.
- and ultra-violet absorption of vitamin *A*. **1934**, 88.
- and vitamin *A* content of butter. C. A. Baumann and H. Steenbock, **1933**, 560.
- colorimetric estimation of —; Curves for use in. W. S. Ferguson, **1935**, 680.
- Colour reaction of Japanese acid clay with ——. K. Kobayashi, K. Yamamoto and J. Abe, **1931**, 198.
- content of butter; Influence of breed and diet of cows on —. C. A. Baumann and Others, **1934**, 497.
- content of butter-fat. C. L. Shrewsbury and H. R. Kraybill, **1933**, 631.
- Conversion of — into vitamin *A* by fowls. N. S. Capper, J. M. W. McKibbin and J. H. Prentice, **1931**, 473.

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- Effect of vitamin *A* and — on the oxidation of linolic acid. B. R. Monaghan and F. O. Schmitt, **1932**, 663.
- in butter; Modified spectrophotometric method for assay of —. A. E. Gillam, **1934**, 561.
- in butter; Relative biological efficiencies of the vitamin *A* and —. R. G. Booth, S. K. Kon and A. E. Gillam, **1935**, 333.
- in butter-fat; Determination of —. H. M. Barnet, **1934**, 561.
- in butter-fat; Seasonal variations in —. R. G. Booth and Others, **1934**, 50.
- in olive-oil; Stability of —. R. G. Turner, **1934**, 560.
- in palm oil. K. Kobayashi, K. Yamamoto and J. Abe, **1934**, 689.
- in palm oil; Colour reaction of Japanese acid clay upon —. K. Kobayashi, K. Yamamoto and J. Abe, **1932**, 264; **1934**, 639.
- in plant tissues; Analyses of —. E. S. Miller, **1935**, 265.
- Isolation of — from the suprarenal glands. O. Bailly and R. Netter, **1932**, 52.
- Isomerisation of — by means of antimony trichloride. A. E. Gillam, I. M. Heilbron, R. A. Morton and J. C. Drummond, **1932**, 791.
- Method of purifying — and the vitaminic activity of the purified product. M. Javillier and L. Emerique, **1930**, 588.
- Micro-organisms and the synthesis of — and vitamin *A*. C. A. Baumann and Others, **1934**, 121.
- Oxygen equivalent determined with potassium permanganate in pyridine solution. J. H. C. Smith and H. A. Spoehr, **1930**, 340.
- Relation of — to vitamin *A*. E. M. Hume and I. Smedley-Maclean, **1930**, 288.
- relation of — to vitamin *A*; Further observations on the. J. C. Drummond, B. Ahmad and R. A. Morton, **1930**, 643.
- Separation of vitamin *A*, xanthophyllen and —. P. Karrer and K. Schopp, **1932**, 582.
- solutions; Stability of —. C. A. Baumann and H. Steenbock, **1933**, 560.
- Stability of — in ethyl esters of fatty acids, and in liver and vegetable oils. F. G. McDonald, **1934**, 120.
- Transformation of — into vitamin *A*, as shown by a study of the absorption spectra of rat-liver oils. N. S. Capper, **1930**, 710.
- Transformation of — into vitamin *A in vitro*. H. S. Olcott and D. C. McCann, **1932**, 53.
- Unaponifiable lipids of lettuce. I. —. H. S. Oleovich and H. A. Mattill, **1931**, 409.
- Variations in the quality of butter, in relation to vitamin *A*, xanthophyll and — contents. A. E. Gillam and Others, **1933**, 630.
- vitamin *A* activity of —; Influence of the solvent on. F. J. Dyer, K. M. Key and K. H. Coward, **1934**, 708.
- Vitamin *A* and —. N. Bezssonoff, **1930**, 340.

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- Vitamin *A* and —. I, Association of vitamin *A* activity with — in the carrot root. T. Moore, **1929**, 765. II, Vitamin *A* activity of red palm oil —. III, Absence of vitamin *D* from —. IV, Effect of various modifications upon vitamin *A* activity of —. T. Moore, **1930**, 288. V, Absence of the liver oil vitamin *A* from —. VI, Conversion of — into vitamin *A* *in vivo*. T. Moore, **1930**, 588. VIII, High potency vitamin *A* concentrates, T. Moore, **1932**, 260. IX, Conversion of — into vitamin *A* in the cow. T. Moore, **1932**, 395. X, Relative minimum doses of vitamin *A* and —. T. Moore, **1933**, 629.
- Vitaminic activity of —. M. Javillier and L. Emerique, **1930**, 341.
- β -Carotene**: Formula for —. **1934**, 73.
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- Separation of — by adsorption. H. H. Strain, **1934**, 559.
- Carotenoid** content of butter. A. E. Gillam and I. M. Heilbron, **1934**, 708.
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- Carotenoids** in plant tissues; Determination of the common —. E. S. Miller, **1935**, 265.
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- Carotin**: Alleged relation of — to vitamin *A*. W. Duiliere, R. A. Morton and J. C. Drummond, **1929**, 764.
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- Carr-Price** reaction: Application of — to carotinoids. B. von Euler and P. Karrer, **1932**, 328.
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- Losses of vitamin *A* on drying fresh raw —. G. S. Fraps and R. Treichler, **1934**, 122.
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- Identification of —. **1934**, 543.
- Scientific examination of —. **1930**, 740.
- Carvone**: Determination of menthone and —. 9th Report of the Essential Oil Subcommittee. **1932**, 378.
- in caraway and dill oils; Hydroxylamine method of determining —. C. T. Bennett and T. T. Cocking, **1931**, 79.
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- Effect of heat upon the biological value of cereal proteins and —. A. F. Morgan, **1931**, 328.
- in milk; Determination of — by approximately iso-electric precipitation. H. C. Waterman, **1927**, 548.
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- Iron in — determined by the ferro-cyanide method. **1926**, 511.
- Non-homogeneity of —. Fractionation by means of ammonium chloride. E. Cherbuliez and M. L. Schneider, **1932**, 464.
- Phosphorus content of —. R. E. L. Berggren, **1932**, 318.
- phosphorus in —; Determination of. R. E. L. Berggren, **1932**, 319.
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- Caseins**: Solubility method of classifying acid —. W. R. Mummery and F. Bishop, **1930**, 367.
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- Cassava** products from British Honduras, **1935**, 46.
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- Cassia Absus**: Oil of —. Z. Ahmad, **1935**, 828.
- Cassia Occidentalis** Linn.: Fatty oil from seeds of —. (Wild coffee.) A. Steger and J. Van Loon, **1934**, 185.
- Cassia Oil**: Naumann v. Radermacher. (Legal Notes), **1930**, 571.
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- Cassiopeium**: Atomic weight of —. **1928**, 160.
- Cassiterite**: New method of dissolving —. S. Tamaru and N. Ando, **1931**, 481.
- Cast Iron**: British — Research Association Report No. 72; Recommended methods for sampling and analysis of foundry products, **1930**, 198.
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- Castanha de Arara Nuts**: A new oil seed from Brazil. **1929**, 177.
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- Castor Seed** in feeding stuffs. **1935**, 404; F. R. Dodd, **1932**, 488.
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- Castrona bark**. **1929**, 753.
- Cat fur**; Characteristics of —. **1929**, 695.
- Catalase** in agricultural products; Determination of —. A. K. Balls and W. S. Hale, **1932**, 733.
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- Catalysis** and its Industrial Applications; (Review), E. B. Maxted, **1933**, 374.
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- Catalyst**: Platinised silica-gel as a — in gas analysis. II, Oxidation of the methane hydrocarbons. K. A. Kobe and E. B. Brookbank, **1934**, 198.
- Catalysts** for the oxidation of sulphur dioxide; Platinised silica gels as —. H. N. Holmes, J. Ramsay and A. L. Elder, **1929**, 771.
- Catalytic** activity of dust particles. F. O. Rice, **1926**, 539.
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- Catawba grape juice**. B. G. Hartmann, **1926**, 151.
- Catechin**: cacao —; Extraction of. **1928**, 370.
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- Catechol**: Isolation of — from pigmented onion scales* and its significance in relation to disease resistance in onions. K. P. Link and J. C. Walker, **1933**, 355.
- Catechu** on furs; Identification of —. **1935**, 797.
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- Cathode**: mercury dropping —; Electrolytic analysis with the. J. Heyrovsky, **1927**, 731.
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- Cathode Cell**: New type of mercury — for determining minute quantities of arsenic. T. Callan and R. T. Parry Jones, **1930**, 90.
- Cathode Rays**: Comparison of the antirachitic potency of ergosterol irradiated by ultra-violet light and by exposure to —. A. Knudson and C. N. Moore, **1929**, 183.
- Cations**: Detection of — by means of resorufin. H. Eichler, **1934**, 300.
- Cattle** cake; Warranties as to —. (Legal Notes), **1930**, 447; **1931**, 30.
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- Ceanothus Americanus**: Alkaloids of —. A. H. Clark, **1926**, 355.
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- Cedar Oil** as anti-ferment. **1928**, 612.
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- Celery** pills; Composition of —. **1934**, 32.
- Celery Seed Oil** as anti-ferment. **1928**, 612.
- Cell**: Electrolytic — for use with the mercury cathode. A. D. Melaven, **1930**, 416.

- Cell**—*continued*.
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 quinhydrone — for rapid work; A simple, inexpensive. J. G. Davis, **1931**, 449.
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- Cellophane**: Effect of sunlight passing through —. W. L. Davies, **1934**, 495.
- Cells**: fatty oils in green —; Rapid detection of. K. B. Blackburn and M. Thomas, **1928**, 300.
 of plants; Detection of nickel in —. A. Martini, **1930**, 456.
- Cellular toxicity of gaseous and volatile poisons**. S. Lallemand, **1929**, 359.
- Cellulose**: Action of sodium hydroxide solution on modified cotton — at the ordinary temperature. C. Birtwell, D. A. Clibbens and A. Geake, **1928**, 672.
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- Cellulose Acetate**: acetic acid in —; Determination of. K. Atsuki and I. Kagawa, **1933**, 564.
- Cellulose Acetate**—*continued*.
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- Cellulose Formate**: Analysis of — by oxidation. G. Tocco and A. Nyssens, **1930**, 408.
- Cellulosic gels of the wheat grain**; Colorimetric micro-reactions of the —. P. Bruère, **1931**, 66.
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- Cement**: Analysis of Portland —. J. C. Redmond, **1933**, 781.
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- Centrifugation**: Substitution of — for filtration and calcination in the gravimetric determination of tin and lead in their alloys. M. Foà, **1927**, 364.
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- Cephaeline**: Bromine as a reagent in determining —. **1931**, 732.
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- Cereal beverages**; Caffeine in —. C. H. La Wall and J. W. E. Harrison, **1932**, 786.
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- Laboratory Methods. 3rd Ed. (Review), 1935, 727.
- plants; Non-volatile organic acids in —. E. R. Nelson and H. H. Motter, 1931, 672.
- products; Analyses of —. 1931, 535.
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- products; Determination of starch in —. C. W. Herd and D. W. Kent-Jones, 1931, 184.
- products; Determination of starch in —, with special reference to rice. E. H. Hall, 1932, 41.
- products; Influence of peptic digestion in determining total carbohydrates in —. B. G. Hartmann and F. Hillig, 1927, 160.
- products; Possibilities and limitations of chloropicrin as a fumigant for —. R. N. Chapman, 1926, 262.
- proteins; Effect of heat upon the biological value of —. A. F. Morgan, 1931, 328.
- Cereals:** Microscopy of husks of the principal —. H. Härdtl, 1935, 326.
- Vitamin B_1 values of —. R. H. A. Plimmer, W. R. Raymond and J. Lowndes, 1931, 679.
- Vitamin B_2 content of — and the supposed connection between human pellagra and deficiency of this vitamin. W. R. Aykroyd, 1931, 56.
- Cerebrospinal Fluid:** Micro-determination of sodium in —. 1932, 130.
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- Cerevisterol**, a sterol accompanying ergosterol in yeast. E. M. Honeywell and C. E. Bills, 1933, 104.
- Ceria:** Separation of — from other rare earths. J. W. Neckers and H. C. Kremers, 1928, 355.
- Ceric Ion:** Indicators for the reaction between ferrous ion and —. N. H. Furman and J. H. Wallace, Junr., 1930, 527.
- Potentiometric study of the reaction between ferrocyanide ion and —. N. H. Forman and O. M. Evans, 1929, 371.
- Ceric Sulphate** as means for the electrometric titration of uranium. D. T. Ewing and M. Wilson, 552.
- as means of determining thiosulphate. H. H. Furman and J. H. Wallace, Junr., 1931, 416.
- as volumetric oxidising agent. I, Preparation and standardisation of solutions. Determination of calcium. II, Determination of iron. H. H. Willard and P. Young, 1928, 404.
- as volumetric oxidising agent. VIII, Determination of chromium. H. H. Willard and P. Young, 1929, 190.
- for volumetric determination of certain organic acids. H. H. Willard and P. Young, 1930, 210.
- Hydroquinone determined with —. N. H. Furman and J. H. Wallace, Junr., 1930, 408.
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- in volumetric analysis. V, Potentiometric study of the reaction between ferrocyanide and ceric ions. N. H. Furman and O. M. Evans, 1929, 371; VI, Oxidation of hydrogen peroxide by —. Indirect determination of lead. N. H. Furman and J. H. Wallace, 1929, 490.
- quantitative oxidation with —; Experiments on. A. J. Berry, 1929, 461.
- solution; Determination of vanadium in presence of chromium, tungsten and iron by titration with —. H. H. Willard and P. Young, 1928, 674.
- solution; Volumetric determination of nitrites by means of —. H. Bennett and H. F. Harwood, 1935, 677.
- Volumetric determination of mercurous mercury with —. H. H. Willard and P. Young, 1930, 295.
- Volumetric determination of tellurous acid with —. H. H. Willard and P. Young, 1930, 295.
- Volumetric determination of thallium with —. H. H. Willard and P. Young, 1930, 217.
- Cerimetric** titration of small amounts of iron, with the use of $\alpha\alpha'$ -dipyridyl as an indicator. C. J. van Nieuwenburg and H. B. Blumenfeld, 1935, 847.
- Cerium:** Atomic weight of —. 1928, 160, 289; 1929, 295; 1934, 547.
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- lead alloyed with —; Analysis of. 1933, 454.
- Oxidimetric determination of — by means of dichromate and arsenite. R. Jang, 1934, 646.
- Separation of gallium from —. 1929, 367.
- Separation of thallium from —. 1930, 410.
- Separation of zirconium and hafnium from —. L. Moser and R. Lessing, 1928, 458.
- volumetric determination of —. G. Autié, 1928, 113.
- Cerium Sulphate** as a confirmatory reagent in the detection of aluminium. H. Yagoda and H. M. Partridge, 1930, 716.
- Cerous Nitrate:** Volumetric determination of fluorine by means of —. G. Batchelder and V. W. Meloche, 1931, 555.
- Ceruleo-Molybdimetry:** Rapid determination of the phosphoric ion in soils and fertilisers by —. G. Denigès, 1928, 351.
- Cetoleic Acid:** Constitution of —. 1927, 726.
- Cetorhinus Maximus Günner:** Fatty oils of the "pilgrim" whale (—). E. André and H. Canal, 1929, 605.
- Ceylon:** Report of the •Agricultural Chemist (A. W. R. Joachim), for the year 1927, 1928, 653; for 1928, 1930, 128; for 1929, 1931, 106.
- Report of the Government Analyst (C. T. Symons), for — for the year 1927, 1928, 384; for 1928, 1929, 544; for 1929, 1930, 578; for 1930, 1931, 666; for 1931, 1932, 575; for 1934 (J. A. V. Collins), 1935, 472.

- CH, CH₂, and CH₃**, groupings contiguous to negative groups; Colorimetric test for compounds containing —. H. Goswami, N. Shaha and B. Mukerjee, **1935**, 114.
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- Chanceol Method** of separating iron and aluminium. P. L. L. Robinson and W. E. Scott, **1930**, 154.
- Chandu Dross**: **1931**, 812; **1935**, 473.
- Chapman** biological method for determining the preservative power of hops; Standardisation of the strength of the organism used in —. A. Chaston Chapman, **1930**, 57.
- Charcoal**: absorptive power of medicinal —; Comparison of the —. H. Brindle, **1928**, 501.
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- Charcoals**: absorptive powers of —; Determination of. Surun, **1926**, 481.
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- Chaulmoogra Group of Oils**: E. André, **1926**, 90.
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- Chaulmoogra Oil**: Glycerides of —. A. Bömer and H. Engel, **1929**, 423.
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- Cheddar** cheese. (Legal Notes), **1930**, 127.
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- "Cheiranthic Acid"** of wallflower seed oil. T. P. Hilditch and E. E. Jones, **1928**, 109.
- Chemical Affinity**. (Review), L. J. Hudleston, **1930**, 72.
Analyses; Quantitative —. (Clowes and Coleman). Revised by D. Stockdale and J. Dexter, **1931**, 698.
Analysis. Vol. XXVI. (Review), Ed. by B. M. Margosches, **1929**, 310.
analysis; Errors of judgment in —. J. F. Tocher, **1926**, 338.
Analysis; Lunge and Keane's Technical Methods of —. 2nd Ed. Edited by C. A. Keane and P. C. L. Thorne. (Review), **1929**, 66; **1931**, 769.
Analysis; Photometric —. Vol. I, Colorimetry. (Review), J. H. Yoe, **1929**, 193; Vol. II, Nephelometry. J. H. Yoe, **1929**, 314.
analysis; Spectrographic —. H. Ramage, **1929**, 373.
Annual; Van Nostrand's —. (Review), **1927**, 617; **1935**, 648.
Arithmetic. (Review), S. B. Arenson, **1933**, 125.
Calculations; Industrial —. (Review), O. A. Hougen, **1932**, 483.
Catalogue; Engineering and —. **1931**, 282.
Constants; Annual Tables of —. (Review), **1927**, 54.
Constants; Physical and —. (Review), G. W. C. Kaye and T. H. Laby, **1927**, 53.

Chemical—continued.

- constitution of certain local anaesthetics; Relationship between hydrogen ion concentration and —. E. B. Vliet and R. Adams, **1926**, 527.
- constitution; Relationship between toxicity and —. E. Walker, **1928**, 298.
- Dictionary. (Review), J. W. D. Hackh, **1930**, 231.
- Encyclopaedia. (Review), C. T. Kingzett, 4th Ed., **1928**, 464; 5th Ed., **1932**, 809.
- Engineering and Thermodynamics applied to the Cement Rotary Kiln. G. Martin, **1933**, 126.
- Engineering; Rubber in —. H. P. Stevens and M. B. Donald, **1933**, 730.
- Microscopy; Handbook of —. Vol. I, E. M. Chamot and C. W. Mason. (Review), **1930**, 470; Vol. II, 2nd Ed., **1931**, 559.
- Nomenclature; Commission for the Reform of Inorganic —. **1928**, 655; For the Reform of Organic —, **1928**, 656; For the Reform of Biological —, **1928**, 656.
- nomenclature; Revision of inorganic —. M. Delépine, **1926**, 192, 194.
- Pathology; Handbook of Clinical —. (Review), F. S. Fowweather, **1929**, 775.
- Plant; Design and Construction of High-Pressure —. (Review), H. Tongue, **1934**, 513.
- reactions and volumetric titrations in Wood's light. R. Mellet and M. A. Bischoff, **1926**, 480.
- Reagent and "C.P." —; Standards and Tests for. (Review), B. L. Murray, **1928**, 563.
- Services and Life of Frederick Accum. (Review), C. A. Browne, **1926**, 276.
- Symbols; Inorganic — and other useful Chemical Data. (Review), E. R. Darling, **1927**, 502.
- Synonyms and Trade Names. (Review), W. Gardner, **1926**, 654.
- Technology; Bibliography of Bibliographies on Chemistry and —. C. J. West and D. D. Berolzheimer, **1933**, 126.
- Terminology; German-English —. A. King and H. Fromherz. (Review), **1934**, 782.
- The Making of a —. (Review), E. J. Lewis and G. King, **1927**, 662.
- "Chemical Food": Question of a standard for —. (Legal Notes), **1935**, 407.
- Chemicals**: "Analar" Standards for Laboratory —. British Drug Houses (Review), **1935**, 63.
- Analysis of Drugs and —. (Review), N. Evers and G. D. Elsdon, **1929**, 774.
- Arsenic in — determined by the electrolytic method. N. Evers, **1926**, 526.
- British — and their Manufacturers, **1931**, 282; **1932**, 282; **1933**, 126.
- from the sea; Industrial —. G. M. Dyson, **1926**, 597.
- Organic —; Organic Syntheses: An Annual Publication of Satisfactory Methods for the Preparation of. Vol. XI. (Review). Edited by C. S. Marvel, **1931**, 842.
- Chemie der Nahrungs- und Genussmittel.** (Review), F. Fuhrmann, **1927**, 499.
- Chemie-Ingenieur**: Der —. Vol. II, Part 4. Edited by A. Eucken, **1933**, 308.
- Chemische Analyse.** L. Winkler, **1931**, 698.
- mit Röntgenstrahlen. G. von Hevesy and E. Alexander, **1933**, 652.
- Chemistry**: Agricultural —. See **Agricultural Chemistry**.
- Analytical —. See **Analytical Chemistry**, and **Chemical Technology**; Bibliography of Bibliographies on —. C. J. West and D. D. Berolzheimer, **1933**, 126.
- Annual Survey of American —. Vol. III. C. J. West, **1929**, 130.
- Applied —. See **Applied Chemistry**.
- Cereal —; Modern. (Review), D. W. Kent-Jones, **1928**, 310.
- Clinical in Practical Medicine. (Review), C. P. Stewart and D. M. Dunlop, **1932**, 279.
- Colloid —. See **Colloid Chemistry**.
- Contemporary Developments in —. (Review), **1929**, 262.
- Dairy —. See **Dairy Chemistry**.
- Elementary —; Handbook of. (Review), J. C. Attix, **1928**, 307.
- Essays on the Art and Principles of —. (Review), H. E. Armstrong, **1927**, 435.
- First Principles of —. (Review), F. W. Dootson and A. J. Berry, **1928**, 244.
- Food —; Colloid Aspects of. (Review), W. Clayton, **1932**, 133.
- for Higher School Certificates and Intermediate Students. **1934**, 728.
- Forensic — and Scientific Criminal Investigation. 2nd Ed. (Review), A. Lucas, **1932**, 135.
- Handbook of —. (Review), N. A. Lange, **1935**, 126.
- Hermes or the Future of —. T. W. Jones, **1929**, 130.
- in Daily Life (Review), S. Glasstone, **1930**, 157.
- in Industry. (Review), H. E. Howe, **1926**, 489.
- in Medicine. (Review), **1929**, 312.
- in the Home. (Review), J. B. Firth, **1929**, 625.
- in the Service of Man. 4th Ed. (Review), A. Findlay, **1931**, 843.
- Industrial —. See **Industrial Chemistry**.
- Inorganic —. See **Inorganic Chemistry**.
- International critical tables of numerical data of —. (Review), **1926**, 482.
- International Union of —; First report of the Committee on Atomic Weights. **1931**, 538; Second Report, **1932**, 316; Third Report, **1933**, 230; Fourth Report, **1934**, 414, 547; First Report of the Permanent Commission on Thermochemistry. **1935**, 130.
- Laundry —. (Review), A. Harvey, **1927**, 62.
- Literature of —; A Guide to the. (Review), E. J. Crane and A. M. Patterson, **1928**, 466.
- Makers of —. (Review), E. J. Holmyard, **1932**, 810.
- Manual of —. (Review), A. P. Luff and H. C. H. Candy, **1926**, 166.
- of Dyeing. (Review), J. K. Wood, **1927**, 255.

Chemistry—continued.

- of Plant Products; Introduction to the 4th Edition. (Review), P. Haas and T. G. Hill, **1928**, 681.
- of the Ancient Assyrians. (Review), R. Campbell Thompson, **1926**, 112.
- of the Colloidal State. (Review), J. C. Ware, **1930**, 471.
- of the Oil Industries. (Review), J. E. Southcombe, **1927**, 312.
- of Wheat Flour. The —. (Review), C. H. Bailey, **1926**, 114.
- of Writing and Printing Inks. (Review), W. B. Gamble, **1927**, 313.
- Organic —. See **Organic Chemistry**.
- Pharmaceutical — for Students of Pharmacy and Pharmacists; A Textbook of Inorganic. (Review), C. H. Rogers, **1930**, 602.
- Physical —. See **Physical Chemistry**.
- Physiological. See **Physiological Chemistry**.
- Practical —. G. P. McHugh, **1934**, 584.
- Quantum —. A. Haas, **1931**, 142.
- Radiation in —. (Review), R. A. Morton, **1928**, 560.
- Starch —; Comprehensive Study of. Vol. I. (Review), R. P. Walton, **1928**, 561.
- Surface —. (Review), E. K. Rideal, **1926**, 598; 2nd Ed., **1930**, 601.
- Symbols and Formulae in —. An Historical Study. (Review), R. M. Caven and J. A. Cranston, **1928**, 677.
- The Spirit of —. (Review), A. Findlay, **1931**, 140; **1935**, 578.
- Theoretical —; A Comprehensive Treatise on Inorganic and. Vol. VI (Review), J. W. Mellor, **1926**, 113; Vol. VII, **1927**, 309; Vol. VIII, **1928**, 511; Vol. IX, **1929**, 377; Vol. X, **1930**, 773.
- Thermodynamics and —. (Review), F. H. Macdougall, **1927**, 560.
- Three centuries of —. Phases in the growth of a Science. (Review), I. Masson, **1926**, 329.
- Triumphant. W. J. Hale, **1933**, 508.
- Chemists**: Forgotten —. E. F. Smith, **1926**, 319.
- Chemists' Pocket Book**; Bayley's —. 9th Ed. (Review), R. Ensoll, **1929**, 495.
- Year Book. (Review), F. W. Attack, **1926**, 322; **1927**, 498; **1928**, 618; **1929**, 563; **1931**, 622.
- Chemotherapy**: Chemistry of —. (Review), G. M. Dyson, **1928**, 464.
- Research in —. **1935**, 176.
- Some new principles in —. M. Coplans and A. G. Green, **1928**, 114.
- Chenopodium Oil**: ascaridole in —; Determination of. H. Paget, **1926**, 170; T. T. Cocking and F. C. Hymas, **1930**, 180.
- Toxicity of —. **1929**, 476.
- Cherries**: Analysis of —. L. H. Lampitt and E. B. Hughes, **1928**, 33.
- apple juice in pure fruit preserves (strawberries and —); Detection of. C. F. Muttelet, **1928**, 101.
- Boron compounds in crystallised —. **1929**, 16; in fresh —. **1929**, 17.
- Refractometric investigation of juice of agriot —. **1926**, 41.
- Cherry cider**. **1932**, 168.
- gum; Composition of —. C. L. Butler and L. H. Cretcher, **1932**, 42.
- juice; Refractometric studies on —. **1931**, 461.
- kernel oil; American —. G. S. Jamieson and S. I. Gertler, **1930**, 761.
- Cherry-Laurel** distillate; Alleged reaction of —. F. Morvillez and Defosse, **1927**, 239.
- Microchemical distinction of —. **1929**, 363.
- water; Reduction of molybdic reagents by —. F. Morvillez and Defosse, **1932**, 581.
- Cheshire** butters and cheeses of low Reichert-Meissl value. H. Lowe, **1928**, 89.
- cheese; Fat in —. (Legal Notes), **1927**, 151.
- Cheese. Ministry of Agriculture and Fisheries Statutory Rules and Orders, 1933, 1933, No. 677. **1933**, 544.
- cheese; Sale of so-called "Dutch Cheshire" cheese as —. (Legal Notes), **1934**, 485.
- Cheshunt Compound**: Specification for —. **1934**, 695.
- Chester**: Appointment of H. Lowe as Agricultural Analyst for County Borough of —. **1932**, 163; as Public Analyst for —. **1932**, 29.
- Chestnut** bark and — wood extracts; Comparison of —. A. Ponte, **1932**, 667.
- tannin; Reaction for — with nitrous acid. P. Zijdnev, **1930**, 293.
- wood extract in a mixture of other tanning extracts; Detection and determination of —. F. F. Marshall, **1930**, 64.
- Chewing Gum**: Drugs in —. **1929**, 748.
- Chia Seed Oil**: W. F. Baughman and G. S. Jamieson, **1929**, 677.
- Chicken** and ham roll. (Legal Notes), **1926**, 514.
- Chicken Fat**: Fatty acids of —. J. Grossfeld, **1932**, 112.
- Chickens**: gas-stored —; Chemical changes in fat of. C. H. Lea, **1935**, 44.
- Vitamin D and resistance of — to parasitism. J. E. Eckert and L. A. Spindler, **1929**, 356.
- Chicory** agglomerates and their adulteration. L. Gobert, **1930**, 201.
- and coffee in coffee mixtures; Determination of the proportions of —. E. B. Hughes and W. Wise, **1934**, 633.
- extract of coffee and —; Estimation of. B. Dyer, **1933**, 274; E. H. Bunce, **1933**, 532.
- Chili Saltpetre**: Perchlorate in — determined by means of nitron. A. Vürtheim, **1927**, 251.
- Chillies**: Manganese in —. **1929**, 348.
- Chimica Applicata**: Dizionario di Merceologia e di —. 5th Ed. Vols. I and II. (Review), G. V. Villavecchia, **1930**, 357; Vol. III, **1932**, 69; Vol. IV, **1932**, 548.
- Chimie Inorganique**: Cours de —. (Review), F. Swarts, **1927**, 369.
- China Clay**: Testing —. J. Grant, **1934**, 774.
- China Wood Oil**: Drying rates of synthetic resins with —. C. A. Thomas and P. E. Marling, **1932**, 668.
- Gelation of — by antimony halides. T. François, **1934**, 364.
- Chinese crackers**, **1929**, 546.
- date; Mineral content of the jujube (—). M. P. Benoy, **1930**, 200.
- edible birds' nests. **1934**, 754.

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- jute seed and soil. T. Inaba and K. Kitagawa, **1935**, 335.
liquorice root. New substance in —. P. A. Houseman and C. K. Swift, **1930**, 51.
vegetable (stillingia) tallow; Component glycerides of —. T. P. Hilditch and J. Priestman, **1930**, 761.
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Chloral Hydrate in the organism; Distribution of —. N. E. Renescu and B. B. Olzsewski, **1932**, 791.

test for Peru balsam. E. M. Smelt, **1932**, 724.
"Chloramin" (similar to mianin): Relative effectiveness of — as disinfectant. **1926**, 259.

Chloramine in volumetric analysis; Applications of —. A. S. Komarowsky, W. F. Filonowa and I. M. Korenman, **1934**, 436.

Methyl orange as means of detecting free chlorine and —. Besemann, **1928**, 669.
Reaction of — with fats. B. M. Margosches and M. Frischer, **1927**, 609.

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Chloramine-T as an oxidising agent; Notes on —. A. J. Berry, **1934**, 736.
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Effect of heat on —. G. E. Ewe, **1933**, 555.
for removing mildew and mould stains. **1932**, 166.

Chloranil as a differential reagent for amines. J. Sivadjian, **1935**, 425.

Chlorate in perchlorate; Detection of —. T. P. Raikowa-Kowatschewa, **1931**, 208.
method for determining nitrate nitrogen, total nitrogen, and other elements in soils and plant tissues. E. M. Emmert, **1929**, 491.
Rapid test for —. H. R. Offord, **1935**, 341.

Volumetric determination of —. K. Glew, **1934**, 203.

Chlorates: Colorimetric determination of — by means of aniline hydrochloride. R. A. Jones, **1931**, 807.

Determination of perchlorates and —. K. Scharrer, **1926**, 370.
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Chlorazene: **1931**, 51.

o-Chlorobenzaldehyde: Methone as reagent for —. **1929**, 486.

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in tissues; Micro-determination of —. K. Linderstrøm-Lang, A. H. Palmer and H. Holter, **1935**, 421.

iodide in presence of —; Argentometric determination of. I. M. Kolthoff, **1927**, 305.

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Titration of — with mercurous nitrate with bromphenol blue as adsorption indicator.

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Volumetric micro-determination of —. B. Bullock and P. L. Kirk, **1935**, 497.

Chloride of Lime: Chlorine in —. **1935**, 403.

Chlorides: bromides and iodides in presence of —; Micro-determination of. I. Bellucci, **1935**, 275.

in biological material; Use of tartrazine in determining —. W. R. Fearon and W. A. Gillespie, **1935**, 193.

in dairy products and biological material; Determination of —. W. L. Davis, **1932**, 79.

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in milk; Mercurimetric determination of —. E. Geyer and A. Rotsch, **1933**, 162.

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Chlorinated coal tar derivatives; Preservative properties of — for wood preservation. L. P. Curtain and M. T. Bogert, **1928**, 50.

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Chlorination: Control of sewage —. Use and value of the *o*-tolidine test. C. Lea, **1933**, 779.

Chlorine: Action of — on lignified tissues. F. M. Wood, **1934**, 569.

Action of free — on microbes. F. Dienert and P. Etrillard, **1927**, 722.

Analysis of mixtures of chlorine monoxide and —. J. W. T. Spinks, **1931**, 688.

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- Determination of active —. J. C. Harral and F. W. M. Jaffé, **1932**, 308.
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- in air; Colorimetric method for determining free —. L. E. Porter, **1926**, 476.
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- in bleached flour. Determination of —. A. Seidenberg, **1926**, 150; **1928**, 342.
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- in commercial benzaldehyde; Determination of small quantities of —. C. G. Daubney, **1935**, 29.
- in cow's milk; Elimination of sodium and —. L. Barthe and E. Dufilho, **1927**, 287.
- in flour; Detection of small quantities of —. D. W. Kent-Jones and C. W. Herd, **1930**, 394.
- in foodstuffs; Determination of sodium, potassium and —. A. D. Husband and W. Godden, **1927**, 72.
- in gases or solutions detected by means of resorufin. H. Eichler, **1935**, 121.
- in iodised oils; Determination of —. T. T. Cocking and G. Middleton, **1931**, 671.
- in milk; Determination of —. A. D. Husband and W. Godden, **1927**, 288.
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- in organic compounds; Micro-volumetric determination of — with the use of an assay balance. D. W. Cowie and D. T. Gibson, **1934**, 388.
- in organic material; Alkalimetric micro method for determining —. M. K. Zacherl and H. G. Krainick, **1932**, 591.
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- in water; Rapid determination of free —. L. Leroux, **1935**, 113.
- Manganese interference in the *o*-tolidine test for available —. E. S. Hopkins, **1927**, 496.
- Methyl orange as means of detecting free — and chloramine. Besemann, **1928**, 669.
- Relative effectiveness of active —. **1926**, 259.
- Reliability of the diphenylamine test for nitrates in milk in presence of small quantities of —. D. R. Wood, E. T. Illing and A. E. Fletcher, **1934**, 400.
- Simple micro-analytical separation of bromine and —. L. Moser, **1930**, 413.
- Sterilisation of sea water by means of —. D. R. Wood and E. T. Illing, **1930**, 125.
- treatment of flour (Parliamentary Notes), **1929**, 165.
- Uses of — in industry. **1935**, 692.
- Water sterilisation by gaseous —. (Review), **1926**, 545.
- Chlorine Monoxide:** Analysis of mixtures of chlorine and —. J. W. T. Spinks, **1931**, 688.
- Chlor-iodo** compounds precipitated from fish oils. S. Ueno and M. Iwai, **1933**, 174.
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- Carbon tetrachloride in —. G. Ciogolea, **1934**, 500; E. H. Madsen, **1935**, 329.
- Colorimetric method for determining —. W. G. Moffitt, **1933**, 2.
- decomposition products in anaesthetic —; New method for detecting. N. L. Allport, **1931**, 706.
- Detection of — in toxicological cases. Kohn-Abrest, **1934**, 641.
- Distinction of carbon tetrachloride and —. J. Rozeboom, **1935**, 560; N. Schoorl, **1935**, 626.
- Ethyl carbonate in —. **1926**, 23.
- method for the colorimetric determination of iodine. K. L. Maljaroff and W. B. Mat-skiewitsch, **1934**, 135.
- Poisoning by — during narcosis. A. Sartori, **1931**, 331.
- Pyridine test as a quantitative method for determining minute amounts of —. W. H. Cole, **1927**, 94.
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- Chlorogenic Acid:** Determination of —. W. Plücker and W. Keilholz, **1933**, 701.
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- in raw and roasted coffee; Determination of —. C. Griebel, **1933**, 621.
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- Chloropentamine Cobaltic Chloride:** **1932**, 511.
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- Chloropicrin** as a fumigant for cereal products; Possibilities and limitations of —. R. N. Chapman, **1926**, 262.
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- phosgene from —; Preparation of. S. Secareano, **1927**, 491.
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- Chloroplatinate**: Determination of potassium as —. R. Strebinger and H. Holzer, **1932**, 801.
- Chocolate** as source of protein in the diet; Value of cocoa and —. H. H. Mitchell, J. R. Beadles and M. H. Keith, **1927**, 95.
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- Butter fat in —. **1927**, 327.
- coated creams; Sugar-tolerant yeasts in —. M. B. Church, H. S. Paine and J. Hamilton, **1927**, 295.
- coated fondant creams; Prevention of "bursting" in —. H. S. Paine, V. Birchner and J. Hamilton, **1927**, 295.
- Confectionery and Cocoa; Chemistry, Flavouring and Manufacture of —. (Review), H. R. Jensen, **1931**, 768.
- Dutch-Process cocoa and —. "Alkalised cocoa and —." Food Inspection Decision, No. 202 of U.S. Dept. of Agriculture, **1927**, 88.
- Dutch regulations for —. **1932**, 21.
- Easter eggs. **1933**, 688; **1935**, 753.
- fat in —; Determination of. C. E. Wiseman, **1930**, 684.
- Fineness of grinding of — estimated by microscopical and tasting methods. H. M. Mason, **1933**, 440.
- illipé butter in —; Determination of. H. W. Bywaters, F. T. Mags and C. J. Pool, **1927**, 324.
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- Manufacture; Cocoa and —. (Review), H. W. Bywaters, **1931**, 69.
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- Cholera**: Bank notes and —. H. M. Jettmar, **1928**, 51.
- Cholesterol**: Absorption bands of —. Spectroscopic observations on cod-liver oil. II, —. F. W. Schlutz and M. R. Ziegler, **1926**, 586.
- Action of iodine monochloride on —. Determination of the iodine value. H. Werner, **1931**, 475.
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- Antirachitic value of irradiated —. II, Separation into an active and inactive fraction. A. F. Hess, M. Weinstock and E. Sherman, **1926**, 638.
- as a measure of egg yolk in milk products. L. M. Lampert, **1930**, 394.
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- content of hair, wool and feathers. H. C. Eckstein, **1927**, 422.
- Detection and determination of small amounts of — and other sterols. Collected references. A. Wasitzky, **1934**, 438.
- from cod-liver oil; Action of — on a photographic plate. L. Hugouneq and E. Couture, **1929**, 182.
- Identification and determination of — and certain other compounds. (Identification of hydrogenated oils.) J. V. Steinle and L. Kahlenberg, **1926**, 310.
- in blood; Colorimetric determination of lecithin and — in connection with Folin and Wu's system of blood analysis. G. M. De Toni, **1926**, 639.
- in small amounts of blood; Determination of —. S. M. Ling, **1928**, 231.
- Influence of intense X-ray and γ -ray radiations on —. M. C. Reinhard and K. W. Buchwald, **1927**, 485.
- Influence of irradiation upon oxidation products of —. F. W. Schlutz, M. R. Ziegler and M. Morse, **1927**, 423.
- Microchemical detection of —. C. Van Zijp, **1933**, 568.
- micro-determination of —; Contributions to the. M. Yasuda, **1931**, 620.
- Micro method for determining — by oxidation of the digitonide. R. Okey, **1930**, 654.
- Micro method for determining — free and combined. R. Schoenheimer and W. P. Sperry, **1934**, 778.
- obtained from different sources; Properties of —. R. J. Anderson, **1927**, 164.
- of wool wax; Separation of isocholesterol and —. M. R. Freney, **1934**, 770.
- Okey method for determining — by oxidation of the digitonide; Simplification of, M. E. Turner, **1931**, 677.
- Polymerisation of —. (Antirachitic substances. IV.) C. E. Bills and F. G. McDonald, **1926**, 469.
- Preparation and antirachitic activation of some derivatives of ergosterol and —. D. W. MacCorquodale, H. Steenbock and H. Adkins, **1930**, 587.
- Quantitative determination of lecithin and —. Evaluation of egg products. J. Tillmans, H. Riffart and A. Kühn, **1931**, 118.
- Reaction of — with sulphuric, selenic and telluric acids. E. Montignie, **1934**, 426.
- Relation of — to vitamin D. O. Rosenheim and T. A. Webster, **1927**, 293.
- Cholesterols**: Fatty oil of the "pilgrim" whale. Biological relations between the — and squalene. E. André and H. Canal, **1929**, 605.
- Cholesteryl Allophanate** and its use in biochemistry. R. Fabre, **1927**, 163.
- Choline** and nicotinic acid. (Simpler constituents of yeast.) H. B. Vickery, **1926**, 468.
- and its esters in tissue extracts; Microchemical test for —. F. J. Booth, **1935**, 845.

Choline—continued.

Determination of —. L. Lematte, G. Boinot, E. Kahane and M. Kahane, **1931**, 408.

factor of egg-yolk. F. E. Nottbohm and F. Mayer, **1934**, 182.

in coffee; Occurrence and detection of —. F. E. Nottbohm and F. Mayer, **1932**, 322.

Chondrin: Comparative characterisation of gluten and —. M. A. Rakusin and K. Braudo, **1927**, 240.

Chondrosamine: Colorimetric method for determining —. L. A. Elson and W. T. J. Morgan, **1934**, 357.

Choussy well water; Arsenic content of —. R. Clogne, A. Courtois and Cazala, **1930**, 456.

Chowdhury and Das-Gupta method for identifying and estimating oils and fats; Examination of —. **1933**, 211.

Chromate: Determination of small quantities of —. M. L. Jear, **1935**, 430.

in gelatin or agar gel; Methods of analysis for determining —. E. B. Hughes, **1935**, 309.

in presence of organic matter; Iodimetric determination of —. F. Feigl, K. Klanfer and L. Weidenfeld, **1930**, 348.

Precipitation of small amounts of lead as —. B. Jones, **1930**, 318.

Relations occurring in the iodimetric determination of —. F. L. Hahn, **1935**, 430.

Chrome calf leathers; Determination of chromium, iron and aluminium in —. H. B. Merrill and R. G. Henrich, **1930**, 647.

leather; Determination of sulphato-groups in —. H. B. Merrill, J. G. Niedercorn and R. Quarck, **1928**, 454.

-tanned leather; Determination of chromium in —. G. F. Smith and V. R. Sullivan, **1935**, 779.

Chrome Alum: Iodimetric determination of chromium (chromic oxide) in —. J. E. S. Han, **1929**, 307.

Microchemical test for —. **1934**, 138.

Chromic Acid: Determination of cellulose by oxidation with —. C. Birtwell and B. P. Ridge, **1928**, 671.

organic compounds completely oxidisable by sulphuric acid and —; Volumetric determination of. H. Cordebard and V. Mischl, **1928**, 171.

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Chromic Ion: Micro-titration of barium ion and —. R. F. le Guyon, **1927**, 365.

Chromic Oxidation: Application of — to certain alcohols. L. Semichon, **1932**, 664.

Chromic Oxide in chrome alum; Iodimetric determination of —. J. E. S. Han, **1929**, 307.

Chromium: Aluminium in presence of — precipitated by means of *o*-hydroxyquinoline. T. Heczko, **1935**, 120.

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Chromium—continued.

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Benzoate method of precipitating iron, aluminium and —. I. M. Kolthoff, V. A. Stenger and B. Moscovitz, **1934**, 435.

Benzoate method of separating iron, aluminium and — applied in qualitative analysis. L. Lehrman and J. Kramer, **1935**, 197.

compounds; Examination of leather for the presence of extractable —. F. E. Humphreys and H. Phillips, **1933**, 509.

copper in presence of —; Determination of minute amounts of. **1932**, 499.

Determination of —. Ceric sulphate as an oxidising agent. H. H. Willard and P. Young, **1929**, 190.

Diphenylcarbazine as a test for —. N. M. Stover, **1928**, 615.

Drop reaction for —. **1931**, 484.

Gravimetric determination of — by means of potassium cyanate. B. J. F. Dorrington and A. M. Ward, **1930**, 625.

in chrome alum; Iodimetric determination of —. J. E. S. Han, **1929**, 307.

in chrome calf leathers; Determination of —. H. B. Merrill and R. G. Henrich, **1930**, 647.

in chrome-tanned leather; Determination of —. G. F. Smith and V. R. Sullivan, **1935**, 779.

in food and biological material; Bibliography on —. T. H. Pope, **1933**, 341.

in high-speed tool steel; Rapid determination of —. W. Brüggemann, **1930**, 155.

in kindergarten materials. E. Merres and R. Turnau, **1933**, 296.

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in stainless steel; Determination of —. G. F. and G. P. Smith, **1935**, 574.

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Iodimetric determination of —. E. Schulek and A. Dizsa, **1931**, 832.

Iodimetric determination of manganese and — with persulphate. J. H. van der Meulen, **1932**, 335.

microchemistry of —; Collected references to. K. Heller, **1933**, 305.

New colorimetric method for detecting and determining —. G. C. Spencer, **1932**, 405.

Precipitation of —. **1933**, 637; by hexamethylenetetramine. L. Lehrman, E. A. Kabat and H. Weisberg, **1933**, 715.

Separation and determination of iron, aluminium and —. K. K. Järvinen, **1928**, 616.

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- Separation of — from bivalent metals by means of ammonium benzoate. I. M. Kolthoff, V. A. Stenger and B. Moskovitz, **1934**, 572.
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- Separation of indium from —. **1930**, 220.
- Separation of thallium from —. **1928**, 459; **1930**, 409.
- Separation of zinc, cobalt, nickel and iron from —. E. H. Swift, R. C. Barton and H. S. Backus, **1933**, 53.
- toxicology. Absorption of — by the rat, L. W. Conn, H. L. Webster and A. H. Johnson, **1932**, 470.
- Vanadium in presence of tungsten, iron and — determined by titration with ceric sulphate solution. H. H. Willard and P. Young, **1928**, 674.
- Volumetric determination of —. B. Reinitzer and P. Conrath, **1926**, 367; E. Müller and W. Messe, **1927**, 49.
- Chromium Oxide** in lead paints; Determination of —. E. J. Davis, **1929**, 621.
- Chromium Steel** vessels for analytical purposes. A. Krüger, **1931**, 767.
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- "brandies"; Accidental presence of acrolein in —. G. Warcollier and A. Le Moal, **1932**, 387, 578.
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- bark; Determination of total alkaloids in —. P. A. W. Self and C. E. Corfield, **1931**, 52.
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- Cinchonidine**: Bromocresol purple as indicator for —. **1926**, 316.
- Determination of — with the quinhydrone electrode, and the choice of end-points in alkaloidal titrations. E. B. R. Prideaux and F. T. Winfield, **1930**, 561.
- quinine in presence of —; Determination of. **1931**, 717.
- Cinchonine**: Bromocresol purple as indicator for —. **1926**, 316.
- Determination of — with the quinhydrone electrode, and the choice of end-points in alkaloidal titrations. E. B. R. Prideaux and F. T. Winfield, **1930**, 561.
- method of analysing the dyeing tannins. Y. Uyeda, **1930**, 646.
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- Cinematograph** films; Deterioration of —. **1931**, 811.
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- Cinnamic Acid**: Determination of —. **1928**, 28.
- Determination of small quantities of benzoic and —, with notes on the colorimetric determination of salicylic acid. J. R. Nicholls, **1928**, 19.
- Halogen absorption of —. **1929**, 448.
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- Cinnamic Aldehyde**: Determination of —. **1934**, 106.
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- Cinnamon Oil** as anti-ferment. 1928, 612.
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- Citral**: Identification and determination of —. J. Bougault and E. Gattelain, 1935, 480.
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in lemon oil. (Essential Oil Sub-Committee Report No. 6), 1930, 109.
Menthone as reagent for —. 1929, 486.
- Citrate**: Determination of —. W. F. Bruce, 1934, 713.
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- Citrates**: Influence of — on the precipitation of barium sulphate. M. L. Nichols and O. J. Thies, Junr., 1926, 216.
- Citric Acid** and its detection. G. D. Elsdon and A. Lees, 1933, 328.
Application of the Stahre reaction to the accurate determination of —. B. G. Hartmann and F. Hillig, 1927, 549.
Determination of — as pentabromoacetone and its application to wine. O. Reichard, 1934, 759.
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in boiled milk. B. Rogina, 1935, 621.
in fruits and fruit products; Determination of —. B. G. Hartmann and F. Hillig, 1928, 443; 1930, 396.
in milk; Determination of —. B. G. Hartmann and F. Hillig, 1933, 38.
tobacco; Determination of malic acid and —. H. Rundshagen, 1926, 645.
in wine; Determination of —. W. Bartels, 1933, 164.
in wine; New pentabromoacetone process for determining —. P. Berg and G. Schulze, 1934, 553.
Iodimetric method for determining —. P. A. Kometiani, 1932, 192.
New pyrogenic reaction for tartaric, malic and —. J. A. Sanchez, 1927, 358.
solutions; Antimony compounds extracted from enamel ware by —. R. H. Burns, 1935, 220.
Test for — and a reagent for the opium alkaloids and phenols. M. Pesez, 1935, 709.
- Citronella Oil**: Citronellal and —. H. I. Waterman and E. B. Elsbach, 1928, 556.
citronellal in Java —; Determination of. C. T. Bennett and M. S. Salamon, 1927, 693; P. A. Rowaan and D. R. Koolhaas, 1935, 633.
geraniol content of —; Determination of the total. M. Van der Sliik and I. Vermeulen, 1929, 767.
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- Citronellal** and the citronella oils. H. I. Waterman and E. B. Elsbach, 1928, 556.
Determination of —. (Essential Oil Sub-Committee Report No. 10). 1932, 773.
Determination of —. H. I. Waterman and E. B. Elsbach, 1930, 64.
- Citronellal**—continued.
Determination of aldehydes other than —. Essential Oil Sub-Committee Report No. 11. 1934, 105.
in Java citronella oil; Determination of —. C. T. Bennett and M. S. Salamon, 1927, 693; P. A. Rowaan and D. R. Koolhaas, 1935, 633.
Menthone as reagent for —. 1929, 486.
- Citrus**: Cytological study of water-soluble and fat-soluble constituents of —. J. Dufrenoy, 1929, 421.
fruit juices; Standard for —. 1932, 97.
fruits and manufactured products; Ascorbic acid content of certain —. A. L. Bacharach, P. M. Cook and E. L. Smith, 1934, 709.
fruits; Vitamins, oxidising enzymes and reactions in ripe —. 1927, 242.
juices; Titration of vitamin C in —. A. H. Bennett, 1934, 91.
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leaves; Histochemical detection of iron and zinc in —. H. S. Reed and J. Dufrenoy, 1934, 428.
pectin; Simple method for purifying —. H. R. Nanji and J. J. Chinoy, 1934, 554.
- Citrus Oil**: Microchemical distinction of —. 1929, 363.
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- Claisen's Reaction**: Method of determining aromatic aldehydes, based on —. L. Palfrey, S. Sabetay and D. Sontag, 1932, 472.
- Clarains**: Examination of —. 1934, 35.
- Clark's Buffer Solutions**: Methyl orange error in the determination of pH values by comparison with —. I. M. Kolthoff, 1926, 423.
- Clary**: Absolute essential oil of —. Y. Volmar and A. Germstead. 1928, 398.
- Clay**: Japanese acid — (Japanese fuller's earth); Acidity of. K. Kobayashi, 1927, 559.
Japanese acid — detected by the colour reaction of benzidine solution. K. Kobayashi and H. Ishikawa, 1935, 720.
soils; Determination of nitrogen in heavy —. D. V. Bal, 1926, 101.
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- Clays**: alkalis in ores, —, etc.; Determination of. J. Ciocchina, 1927, 432.
Analysis of —. R. C. Groves, 1934, 62.
Colour reaction of the Japanese acid — with liver oils and vitamin A on the market. K. Kobayashi and K. Yamamoto, 1927, 553.
Sands, Minerals and —. Vol. I, No. 2, 1933, 126; No. 3, 1933, 314; No. 4, 1933, 574; Vol. II, 1934, 310.
- Cleaning Fluid**: Liability for damage by a secret —. (Legal Notes), 1926, 185.
- Clerget-Invertase Hydrolysis Constants** of sucrose and raffinose. H. S. Paine and R. T. Balch, 1927, 350.
- Clinical Chemical Pathology**; Handbook of —. (Review), F. S. Fowweather, 1929, 775.

Clinical—continued.

- Chemistry; Quantitative —. Vols. I and II. (Review), J. P. Peters and D. D. Van Slyke, **1933**, 181.
- Medicine; Chemical Methods in —. G. A. Harrison, **1930**, 604.
- Clipsam Stone**: Weathering of —. **1934**, 756.
- Clostridium Acetobutylicum**: Production of acetylmethyl carbinol by —. P. W. Wilson, W. H. Peterson and E. B. Fred, **1927**, 655.
- Cloth** as gun wads. **1935**, 472.
- Glycerin in yarn or —. **1926**, 646.
- glycerol in cotton — and sized yarns; Detection and determination of. G. Smith, **1926**, 265.
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- samples; Conditioning box for —. A. W. Bayes, **1935**, 344.
- Clothing**: Influence of — on the rate of cooling of the human body, **1926**, 191.
- Cloths**: Examination and commercial analysis of cotton —. R. H. Kay, **1931**, 647.
- Clotting** of milk by pepsin; Effect of fluorides and iodides on —. W. M. Clifford, **1928**, 663.
- Clove** produce control. **1934**, 700.
- produce inspection. **1934**, 628.
- Clove Oil** as anti-ferment. **1928**, 612.
- Microchemical distinction of —. **1929**, 363.
- Cloves**: moisture in —; Determination of. P. May, **1926**, 253.
- Volatile oil in —. **1934**, 617.
- water in —; Determination of. **1926**, 152.
- Coagulation**: Rennin — of milk. Effect of hirudin, of heparin, of cephalin and of fat removal. J. B. Stone and C. L. Alsberg, **1928**, 503.
- Coal** analysis; Methods of —. (Fuel Research Board Report), **1927**, 345, 594.
- Analysis of —; British Standard Specification for. **1934**, 35.
- Analysis of commercial grades of —. Fuel Research Survey Paper No. 31. **1930**, 540.
- and Allied Subjects. Compendium II. (Review), N. Simpkin, F. S. Sinnatt and Associates, **1927**, 179.
- ash; Analysis of —. **1934**, 35.
- ash; Quantitative analysis of —. Fuel Research Report No. 28. J. G. King and H. E. Crossley, **1933**, 614.
- Assay of — for carbonisation purposes. Fuel Research Paper No. 21. **1929**, 233.
- Assay of — for carbonisation purposes (Part 3). Correlation with coal gas manufacture. J. G. King and L. J. Edgcombe, **1930**, 279.
- Caking index of —. **1927**, 595.
- Carbonisation of —. **1934**, 37.
- Cleaning and de-ashing of —. **1934**, 36.
- dust; Laboratory methods of determining the inflammability of —. (Safety in Mines Research Board Report No. 31.) A. L. Godbert, **1927**, 713.
- fusain in bituminous —; Electrostatic method of determining. J. D. Davis and J. A. Younkins, **1929**, 616.

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- in nickel-lined bombs; Determination of heat value of —. A. E. Stoppel and E. P. Harding, **1929**, 65.
- Microscopical examination of —. **1934**, 34.
- Moisture and combined water in —. **1930**, S. Iki, **1930**, 215.
- Nitrogen in —; Selenium as a catalyst in the Kjeldahl method for determining. H. E. Crossley, **1932**, 739.
- Oxidation of — and allied substances. **1934**, 35.
- oxidation of —; Methods for detecting. J. Mendelsohn, **1933**, 566.
- pulverised —; Use of. **1934**, 37.
- Sampling of Large and Run-of-Mine —. British Standard Specification No. 502, **1933**, 730.
- seams; Significance of spores in correlation of —. **1934**, 34.
- Softening point of —. **1934**, 36.
- Studies in the composition of —. Methods for rational analysis of —. W. Francis and R. V. Wheeler, **1931**, 333. Errata, **1931**, 420. Determination of decomposition point of bituminous —. H. W. Hibbott and R. V. Wheeler, **1934**, 850.
- Sulphur in — determined by the perchloric acid method. G. L. Smith and A. G. Deem, **1932**, 408.
- sulphur in —; Rapid volumetric determination of. E. L. Skau and I. L. Newell, **1933**, 499.
- Survey of national resources of —. **1934**, 34.
- "Unsaturated hydrocarbons" in the gases from the carbonisation of —. A. B. Manning, J. G. King and F. S. Sinnatt, **1928**, 224.
- water in —; Micro-apparatus for the gravimetric determination of. F. Vetter, **1932**, 541.
- X-ray examination of coke and —. C. N. Kemp, **1930**, 223.
- Coal Gas**: Separation of individual saturated and unsaturated hydrocarbons in — by fractional distillation. F. E. Grey and W. P. Yant, **1927**, 359. See also list of Errata.
- Coal Tar** colours in food; Certification of —. The permitted dyes. (U.S. Dept. of Agriculture Regulation), **1929**, 345.
- colours in foodstuffs; Detection of prohibited —. J. R. Nicholls, **1927**, 585; **1929**, 335.
- colours in foodstuffs; Identification of the prohibited —. A. R. Jamieson and C. M. Keyworth, **1928**, 418.
- colours in hens' eggs; Detection of —. J. Grossfeld and H. R. Kanitz, **1935**, 700.
- Constituents of —. **1935**, 614.
- creosote and castor oil soap disinfectant; Determination of high-boiling phenols in a —. J. N. Taylor, **1928**, 452.
- derivatives; Preservative properties of chlorinated — for wood preservation. L. P. Curtan and M. T. Bogert, **1928**, 50.
- disinfectants; Limitations of phenol coefficients of —. C. M. Brewer and G. L. A. Ruehle, **1931**, 330.

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- Disinfectants; Variation of phenol coefficients of — with different test organisms. B. G. Philbrick, **1930**, 594.
Hydrocarbons; The Higher —. (Review), A. E. Everest, **1928**, 114.
Naphthas; British Standard Specifications for —. No. **479**, **1933**, 314.
Products; Dyestuffs and —. (Review), Beagall, Challenger, Martin and Sand, **1927**, 256.

Coalfish: Identification of —. **1935**, 70.

- Coals**: Heating value of — determined in monel metal bombs. J. C. Geniesse and E. J. Soop, **1926**, 110.
hygroscopic moisture in —; Determination of. H. Löffler, **1929**, 433.

Coating metal for domestic utensils; Cadmium as a —. A. Gronover and E. Wohnlich, **1927**, 605.

of the pear, *Pyrus communis* L.; Constituents of the wax-like —. K. S. Markley, S. B. Hendricks and C. E. Sando, **1935**, 767.

Cobalt: Aluminium in presence of — precipitated by means of *o*-hydroxyquinoline. T. Heczko, **1935**, 120.

Antipyrine as a reagent for —. K. Woynoff, **1932**, 60.

Atomic weight of —. **1928**, 160, 289; **1929**, 295; **1934**, 547.

Cobalt thiocyanate reaction for detecting thiocyanate and —. I. M. Kolthoff, **1930**, 529.

Colorimetric method for the micro-analysis of —. L. Michaelis and S. Yamaguchi, **1929**, 620.

Crystal precipitation of —. **1934**, 776.

Detection and determination of — by arsenophosphotungstic acid. A. Lieberson, **1930**, 294.

Detection of — as caesium cobaltinitrite. H. Yagoda and H. M. Partridge, **1931**, 206.

Determination of —. G. Spacu and J. Dick, **1927**, 430.

Determination of — as hexamminecobaltous iodomercurate. A. Taurins, **1935**, 638.

Determination of — by means of nitroso-naphthol. C. Mayr and F. Feigl, **1930**, 739.

Determination of — by means of nitroso- β -naphthol. L. Philippot, **1935**, 429.

Determination of — with anthranilic acid. H. Funk and M. Ditt, **1933**, 567.

Drop reaction for —. **1931**, 484.

Effect of pH on precipitation of — from acetate solutions. H. R. Fleck and A. M. Ward, **1933**, 388.

Electrolytic determination of —. D. H. Brophy, **1931**, 831.

Gravimetric determination of — by means of dinitrosoresorcinol. O. Tomiček and K. Komárek, **1933**, 112.

in animal nutrition. F. J. Stare and C. A. Elvehjem, **1933**, 167.

in driers, japans, alloys, etc.; Determination of —. O. Heim, **1929**, 464.

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in magnet and high-speed tool steels; Determination of —. J. I. Hoffman, **1932**, 671.

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in potassium cobaltinitrite; Volumetric determination of —. A. A. Wassilieff, **1930**, 67.

in steel; Determination of minute amounts of —. W. J. Agnew, **1928**, 31.

in the pancreas; Nickel and —. G. Bertrand and M. Macheboeuf, **1927**, 95.

ion; Action of concentrated hydrobromic and hydriodic acids on the —. New reaction for nickel. G. Denigès, **1926**, 478.

Microchemical spot test for —, using dithizon. **1931**, 209.

Micro-detection of —; Collected references to. K. Heller, **1933**, 305.

Micro-determination of —. Collected references. Z. Stary, **1934**, 507.

New method for detecting —. T. Bersin, **1931**, 763.

New reagent for —. P. Falcicola, **1927**, 172.

nickel in presence of much —; Detection and determination of. F. Feigl and H. J. Kapulitzas, **1931**, 204.

Potassium cyanate as a reagent for the detection of —. B. J. F. Dorrington and A. M. Ward, **1929**, 327.

Precipitation of — by nitro- β -naphthol. C. Mayr, **1934**, 846.

Quantitative analysis of mixtures of nickel and —. S. Glasstone and J. C. Speakman, **1930**, 93.

Quantitative separation of nickel and — by means of triethanolamine. E. Raymond, **1935**, 574.

Qualitative separation of nickel from — by means of ammonium phosphate. H. Wunschendorff and P. Valier, **1934**, 502.

Rapid gravimetric determination of —. J. Dick, **1931**, 203.

Reagent for —. J. V. Dubsy and V. Bencko, **1933**, 638; H. Herfeld and O. Gerngross, **1933**, 639.

Separation of — from aluminium, chromium and manganese. E. H. Swift, R. C. Barton and H. S. Backus, **1933**, 53.

Separation of beryllium from —. **1929**, 367.

Separation of indium from —. **1930**, 219.

Separation of iron from —. P. Spacu, **1935**, 496.

separation of nickel and —; New method for. G. Schuster, **1931**, 133.

Separation of thallium from —. **1928**, 459.

Use of zinc oxide in determining —. J. I. Hoffman, **1932**, 272.

Volumetric determination of —. **1935**, 54.

Volumetric determination of — by means of ferrous sulphate and potassium dichromate. L. A. Sarver, **1933**, 639.

Volumetric determination of — with permanganate. J. Ledrut and L. Hauss, **1932**, 409.

Cobalt Aluminate test for aluminium; Improvement of the —. C. Otto, **1926**, 478.

Cobalt Chloride as indicator for water. **1926**, 412.

Cobalt Oxide for the oxidation of various gases. J. R. Campbell and T. Gray, **1931**, 60.

- Cobalt Salts:** New reaction of triethanolamine with —. F. Garelli and T. Tettamanzi, **1934**, 366.
- Nickel in — detected and determined colorimetrically by means of formaldoxime. G. Denigès, **1934**, 200.
- Separation and determination of nickel and —. F. G. Germuth, **1930**, 347.
- Cobalt Sulphide:** Quantitative precipitation of sulphides in buffered solutions. I. —. M. E. Haring and M. Leatherman, **1931**, 207.
- Cobalt Thiocyanate** as means of detecting cocaine in presence of novocaine. J. L. Young, **1932**, 179.
- reaction for the detection of cobalt and thiocyanate. I. M. Kolthoff, **1930**, 529.
- Cobaltic Sulphate** as an oxidising agent. S. Swann and T. S. Xanthakos, **1931**, 272.
- Cobaltinitrite:** Gravimetric determination of thallium as —. S. Nisihuku, **1934**, 573.
- method for the volumetric determination of potassium. **1935**, 198.
- method of determining potassium. **1926**, 451.
- method of determining small amounts of potassium. A. H. Lewis and F. B. Marmay, **1933**, 499.
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- Cobra** venom poisoning case. **1930**, 693.
- Coca** and its preparations; Assay of —. W. A. N. Markwell, **1935**, 419.
- Cocaine** and allylcocaine in narcotics. H. Emde, **1931**, 606.
- Colour reactions of novocaine (procaine), anaesthesine and allied compounds which distinguish them from — and similar substances. M. Wagenaar, **1932**, 579.
- Detection of — by Guerbet's reaction. Guignes, **1928**, 500.
- Determination of —. E. O. Eaton, **1927**, 650.
- in mixtures of procaine and —; Separation and detection of. C. H. Riley, **1935**, 710.
- in presence of novocaine; Detection of — by means of cobalt thiocyanate. J. L. Young, **1932**, 179.
- Methyl red as indicator for —. **1926**, 316.
- Microchemical characterisation of strychnine and —. V. Arreguine and F. Amadeo, **1930**, 519.
- Microchemical reaction for —. A. Martini, **1933**, 57.
- Micro-detection of —. **1930**, 474.
- New adulterant of —. E. Collard, **1935**, 185.
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- Cocaine Hydrochloride:** Adulteration of —. **1935**, 473.
- solutions; Reactions of —. H. Rothlin, **1931**, 751.
- Cockles:** Arsenic in —. **1926**, 552.
- Lead in —. **1926**, 564.
- Cocoa** and Chocolate Manufacture. (Review), H. W. Bywaters, **1931**, 69.
- and cocoa preparations; Quantitative determination of shell in —. M. Wagenaar, **1930**, 221.
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- as source of protein in the diet; Value of chocolate and —. H. H. Mitchell, J. R. Beadles and M. H. Keith, **1927**, 95.
- Boron compounds as natural constituents of —. **1927**, 461.
- Chemistry, Flavouring and Manufacture of Chocolate Confectionery and —. (Review), R. H. Jensen, **1931**, 768.
- Definition of —. **1926**, 87.
- Dutch-process chocolate and —. "Alkalisied" chocolate and —. Food Inspection Decision No. 202 of U.S. Dept. of Agriculture. **1927**, 88.
- Dutch regulations for —. **1932**, 21.
- matter in flour confectionery; Determination of. D. D. Moir and E. Hinks, **1935**, 439.
- nib; Contents of chlorides, calcium and magnesium in —. J. Grossfeld and E. Lindemann, **1935**, 256.
- products; Determination of shell in —. E. Alpers, **1928**, 343.
- Solubility of —. **1933**, 229.
- tablets. **1934**, 819.
- total alkaloids in —; Determination of. D. D. Moir and E. Hinks, **1935**, 439.
- Cocoa Butter:** Absence of arachidic acid from —. O. Lüning and W. Drude, **1931**, 602.
- Adulteration of —. Determination of the azelaic acid value. G. Schuster, **1933**, 763; **1934**, 350.
- Classification of — and its substitutes by the freezing-point method. A. G. Avent, **1930**, 477.
- Composition of —. E. Lewkowitsch, **1933**, 763.
- Detection of Borneo tallow in —. **1930**, 9.
- Differentiation of expressed — from that extracted with solvents. A. Castiglioni, **1935**, 257.
- Freezing-point method for examining —. A. G. Avent, **1931**, 180.
- New triglyceride obtained on oxidising —. J. Bougault and G. Schuster, **1931**, 406.
- Setting-point curve of —. J. Straub and R. N. M. A. Malotaux; **1930**, 137.
- temperature of crystallisation of —; New apparatus for determining. S. A. Ashmore, **1934**, 515.
- Transition points of mixtures of cow's butter and —. D. W. Horn and M. A. Wilson, **1934**, 350.
- Use of ultra-violet light for the detection of solvent-extracted —. W. T. Field, **1930**, 744.
- Vanillin in —; Extraction and determination of. D. M. Freeland, **1932**, 9.
- See also **Cacao butter.**
- Coconut:** Boron compounds in ground —. **1929**, 18.
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- Fatty acids of —. **1932**, 112.
- Glycerides of —. **1928**, 603.
- Halogen absorption of —. **1929**, 446.
- in butter fat; Detection of —. **1927**, 69.
- Lauric acid content of palm kernel oil and — as means of detecting these fats in nutrient fat mixtures. J. Grossfeld, **1928**, 603.
- Lower fatty acids of —. E. R. Taylor and H. T. Clarke, **1928**, 44.
- mixtures of palm kernel oil and —; Examination of. G. D. Elsdon and P. Smith, **1927**, 63.
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- Reichert and Polenske values of —. **1927**, 64.
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- Values for —. **1927**, 319.
- Coconut Toddy**; Analytical characteristics of —. J. C. Cowap and F. H. Geake, **1932**, 627.
- Cocos Nucifera**: Chemistry of products of —. Part I. J. P. C. Chandrasena, **1931**, 48.
- Cod**: Identification of —. **1935**, 69.
- muscle protein. **1929**, 36.
- Cod-liver Meal**: Antirachitic properties of —. R. N. Bethke, G. Zinzalian, D. C. Kennard, and H. L. Sassaman, **1929**, 182.
- Cod-liver Oil**: Absorption spectra of the mixed fatty acids from —. W. J. Dann and T. Moore, **1934**, 51.
- accessory food factor content of —; Effect of high temperatures on the. H. W. Southgate, **1926**, 94.
- Action of cholesterol from — on a photographic plate. L. Hugounenq and E. Couture, **1929**, 182.
- and malt extract. **1930**, 686.
- and malt extract deficient in protein. **1934**, 622.
- Antimony trichloride reaction of —. J. C. Drummond, **1930**, 458.
- Antimony trichloride test for —. **1931**, 457; **1932**, 302; Tintometer Ltd., **1932**, 772.
- antirachitic vitamin in different samples of milk, butter and —; Variations in amounts of. K. H. Coward, **1929**, 302.
- Arsenic content of American —. A. D. Holmes and R. Remington, **1934**, 633.
- arsenic in —; Normal occurrence of. E. Sadolin, **1929**, 547.
- as food. Observations on the existence of vitamin E. V. E. Nelson, R. L. Jones, G. Adams and L. T. Anderegg, **1927**, 604.
- Barium value of —. **1928**, 173.
- Biological assay of —. G. Adams and E. V. McCollum, **1928**, 506.
- Blue value of —. N. Evers, **1934**, 82.
- "Cattle —." (Legal Notes), **1930**, 194.
- Chemical composition of the milk of cows receiving —. E. C. V. Mattick, **1928**, 295.

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- Chemical differentiation of the antirachitic factor of autumn and winter butter from irradiated ergosterol and the vitamin D of —. S. K. Kon and R. G. Booth, **1934**, 53.
- Colour Test Sub-Committee of the Pharmacopoeia Commission. Report of the —. **1931**, 457.
- Composition of the mixed fatty acids present in the glycerides of —. K. D. Guha, T. P. Hilditch and J. A. Lovern, **1930**, 456.
- Dilution curve of — with antimony trichloride reagent. E. R. Norris and A. E. Church, **1930**, 458.
- Effect of storage on the antirachitic factor of —, when mixed with ground grains. E. B. Hart, H. Steenbock, and S. Lepkovsky, **1926**, 94.
- emulsification of —; A factor inhibiting. E. Lester Smith, **1931**, 66.
- emulsion with hypophosphites. **1933**, 688.
- emulsions. I, Composition of commercial malt extracts and —. J. M. Jones and T. McLachlan, **1928**, 506. II, Vitamin A content of commercial malt extract and —. III, Testing of malt extract and — for vitamin A. J. M. Jones and N. Evers, **1928**, 506.
- emulsions; Stability of vitamin A in —. H. N. Griffiths, T. P. Hilditch and J. Rae, **1933**, 65.
- Examination of — in Wood's light. H. Marcelet, **1928**, 165.
- fat-soluble vitamins A and D in a series of —; Relative content of. J. L. L. Clare and K. M. Soames, **1928**, 168.
- Fatty acids of —. Y. Toyama, **1927**, 245.
- from various Sources; Relative Values of —. J. C. Drummond and T. P. Hilditch, **1931**, 142, 533.
- Gadoleic acid in —. Y. Toyama and T. Tsuchiya, **1934**, 351.
- Growth-promoting property of irradiated fat in the diet, of direct irradiation and of —. H. Goldblatt and A. R. Moritz, **1927**, 97.
- Halogen absorption of —. **1929**, 446.
- Highly unsaturated acids in —. Y. Toyama and T. Tsuchiya, **1934**, 831.
- Influence of feeding with — on the deposition of lime compounds in the shell of hens' eggs. **1926**, 520.
- Iodine value of —. **1933**, 526.
- Manganese in —. **1929**, 348.
- New colorimeter based on the Lovibond colour system and its application to the testing of —. O. Rosenheim and E. Schuster, **1928**, 179.
- non-destearinated —; U.S.P. regulations for. **1935**, 620.
- Permanence of vitamin A in — as shown by the antimony trichloride colour test. N. Evers, **1930**, 287.
- Photochemistry of —. J. H. Graham, **1934**, 354.
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- Reaction of antimony trichloride with — and its unsaponifiable fraction. E. L. Smith and V. Hazley, **1931**, 265.

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- Relative vitamin *A* and vitamin *D* content of samples of —. K. H. Coward, F. J. Dyer and B. G. E. Morgan, **1932**, 368.
- Spectrographic data concerning —. **1931**, 470.
- Spectroscopic observations on —. II, Absorption bands of cholesterol. F. W. Schlutz and M. R. Ziegler, **1926**, 586.
- Suggested standards for —. **1931**, 534.
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- tablets deficient in vitamins. (Legal Notes), **1928**, 336.
- U.S. Pharmacopoeial standards for —. **1934**, 545.
- Variation in colour-test value of commercial samples of —. F. J. Dyer and F. Wokes, **1931**, 49.
- Variations in results obtained by different observers with the antimony trichloride colour test for —. N. Evers, **1930**, 287.
- Vitamin content of — as influenced by the nutritional state of the cod. E. Poulsson and F. Ender, **1934**, 428.
- Vitamin potency and associated characteristics of average —. R. S. Morgan and H. Pritchard, **1935**, 355.
- vitamin potency of cold-pressed —; Effect of. A. D. Holmes and M. G. Pigott, **1926**, 207.
- Vitamin standards for U.S. Pharmacopoeia —. **1934**, 284.
- vitamin tests. **1929**, 163.
- vitamin *A* activity of —; Influence of the solvent on. F. J. Dyer, K. M. Key and K. H. Coward, **1934**, 708.
- Vitamin *A* in —. **1932**, 247.
- vitamin *A* in —; Comparison of tests for. K. H. Coward, F. J. Dyer, R. A. Morton and J. H. Gaddum, **1931**, 821.
- Vitamin *A* in — determined, (A) biologically, (B) chemically, (C) physically. K. H. Coward, F. J. Dyer and R. A. Morton, **1933**, 105.
- vitamin *A* in —; Report on a comparison between the colorimetric (Rosenheim, Drummond) and the biological method of determining. (League of Nations Health Organization). **1928**, 156.
- Vitamin *D* in —. **1931**, 458.
- vitamin *D* in —; Origin of. A. M. Copping, **1934**, 840.
- vitamin *D* in —; Variation of. **1930**, 197.
- Cod-liver Oils**: Relationship between the antimony trichloride blue value of — and that of their unsaponifiable fractions. F. J. Dyer, **1933**, 709.
- Codeine**: Bromine as a reagent in determining —. **1931**, 725.
- Colour reaction for dionine and —. G. De Haas, **1930**, 454.
- Detection of formaldehyde and —. J. Aloy and A. Valdiguié, **1927**, 41.
- Methyl red as indicator for —. **1926**, 316.
- Coffee adulterants**. **1933**, 35; **1935**, 825.
- adulterated with roasted peas. **1933**, 696.
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- Adulteration of Indian —, with special reference to the extract method of estimation. E. H. Bunce and G. C. Moitra, **1932**, 708.
- and chicory in coffee mixtures; Determination of the proportions of —. E. B. Hughes and W. Wise, **1934**, 633.
- beans; Boric acid in —. **1927**, 463.
- Boric acid in —. W. Partridge, **1927**, 401.
- "Café des Invalides." **1932**, 169.
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- caffeine in —; Micro-determination of. A. C. Röttinger, **1930**, 348.
- caffeine in decaffeinated —; Determination of. W. F. Allen, **1930**, 519.
- "Caffeineless" —. **1930**, 129; **1931**, 536; (Legal Notes), **1929**, 469.
- Chlorogenic acid content of —. W. Hoepfner, **1933**, 702.
- Chlorogenic acid determined in —. C. Griebel, **1933**, 621; **1934**, 421.
- chlorogenic acid in raw and roasted —. Determination of. C. Griebel, **1933**, 621; C. Massatsch, **1934**, 488.
- Chlorogenic and caffeic acids determined colorimetrically in roasted —. W. Plücker and W. Keilholz, **1934**, 762.
- choline in —; Occurrence and detection of. F. E. Nottbohm and F. Mayer, **1932**, 322.
- decoctions and extracts; Determination of caffeine in —. A. Bonn and C. Desgrez, **1932**, 115.
- deprived of caffeine. **1930**, 129.
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- extractable materials in —; Determination of. A. Schugowitsch, **1928**, 103.
- Extraction of trigonelline from raw —. F. E. Nottbohm and F. Mayer, **1932**, 254.
- extracts; Caffeine content of — and their physiological action. H. Jesser, **1927**, 237.
- "French" —. **1930**, 631.
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- Freshly-ground — and "blown" tins. T. B. Shaw and R. C. Frederick, **1926**, 308; J. W. Black, **1926**, 403.
- Groups of extractives in —. Ciupka. **1930**, 759.
- infusions; Use of active charcoal for adsorption of caffeine, particularly from —. F. Sartorius and W. Ottemeyer, **1930**, 140.
- malt and barley substitutes for —; Distinction between. H. Barsch, **1933**, 350.
- malt and grain —; Maltol reaction for distinguishing between. T. Merl, **1927**, 93.
- Maltol and its colorimetric determination in malt —. T. Merl, **1930**, 760.
- Natural and caffeine-free —. J. Pritzker and R. Jungkuz, **1926**, 355.
- nut tree seed oil; Kentucky —. C. Barkenbus and A. J. Zimmerman, **1927**, 610.

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- substitutes; Application of the determination of inulin and laevulosin to the analysis of —. C. I. Kruisheer, **1933**, 23f.
- substitutes (malt coffees); Tests for —. A. Heiduschka and H. Thomas, **1933**, 164.
- Trigonelline content of —. F. E. Nottbohm and F. Mayer, **1931**, 405, 543.
- wild — (*Cassia occidentalis* Linn.); Fatty oil from seeds of. A. Steger and J. Van Loon, **1934**, 185.
- Coffee-bean Oil.** H. A. Schuette, M. A. Cowley and C. H. Chang, **1934**, 830.
- Composition of glycerides of —. R. O. Bengis and R. J. Anderson, **1934**, 494.
- Unsaponifiable matter of —. Preparation and properties of kahweol. R. O. Bengis and R. J. Anderson, **1932**, 579.
- Cognac:** Definition of —. **1932**, 38.
- Cohune Nut fat;** Fatty acids of —. T. P. Hilditch and N. L. Vidyarthi, **1928**, 228.
- Coins:** Counterfeit —. **1930**, 580.
- counterfeit —; Composition of. G. C. Matthews, **1927**, 639.
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- Coke:** nitrogen in —; Selenium as a catalyst in the Kjeldahl method for determining. H. E. Crossley, **1932**, 739.
- ovens; Green gas from —. **1933**, 535.
- ovens; Lead in herbage and soil of lands adjoining —, and the illness and poisoning of stock fed thereon. J. T. Dunn and H. C. L. Bloxam, **1932**, 330.
- Reactivity of —. (Fuel Research Paper No. 22), **1929**, 471; (No. 25), **1930**, 511.
- Sampling and Analysis of —. British Standard Specification No. 496. **1933**, 730.
- Structure and reactivity of —. **1934**, 36.
- sulphur in —; Rapid volumetric determination of. E. L. Skau and I. L. Newell, **1933**, 499.
- volatile matter in —. Determination of F. J. Eaton and S. Pexton, **1928**, 399.
- X-ray examination of coal and —. C. N. Kemp, **1930**, 223.
- Cold Storage** and food preservatives. (Parliamentary Notes), **1926**, 189.
- apples in —; Chemical changes in. **1931**, 533.
- apples in —; Functional diseases of. (Food Investigation Board Report No. 23), **1926**, 85.
- Carbon dioxide for use in —. **1933**, 227.

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- Effect of short periods of — on beef and mutton. W. M. Clifford, **1926**, 303.
- eggs; Ammonia content of —. H. C. Lythzoe, **1927**, 596.
- of poultry. Chemical changes in fat of gas-stored chickens. **1935**, 44.
- Coli** bacteria in beer; Viability of —. R. Koch, **1932**, 535.
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- Coliform** organisms in water; High and low ratio types of —. **1927**, 117.
- Collargol:** Differentiation reactions of argyrol, electrargol, protargol, and —. C. Vaillie, **1934**, 422.
- Colliery By-Products:** Pollution of a river with —. Mawston v. Pease and Partners. (Legal Notes), **1927**, 475.
- Collodion** membranes; Investigation into the standardisation and calibration of —. I. C. Lundsgaard and S. A. Holbil, **1926**, 428.
- Collodium Flexile:** **1930**, 39.
- Colloid** Aspects of Food Chemistry and Technology. (Review), W. Clayton, **1932**, 133.
- Chemistry; Capillary and —. (Review), H. Freundlich, **1926**, 598.
- Chemistry; Inorganic —. (Review), H. B. Weiser, **1933**, 787; Vol. II, **1935**, 728.
- Chemistry; Introductory —. (Review), H. N. Holmes, **1934**, 441.
- Chemistry; Laboratory Manual of —. (Review), H. N. Holmes, **1928**, 407; 2nd Ed., **1934**, 441.
- Chemistry; Laboratory Manual of Elementary —. (Review), E. Hatschek, **1926**, 112.
- Chemistry; Practical —. (Review), W. Ostwald, **1927**, 174.
- Chemistry; Practical Physical and — for Students of Medicine and Biology. 2nd Ed., (Review), L. Michaelis, **1926**, 221.
- Chemistry—Theoretical and Applied. Vol. II. Biology and Medicine. (Review), Ed. by J. Alexander, **1929**, 263; Vol. III, **1932**, 203; Vol. IV, **1932**, 601.
- solutions; Use of the analytic quartz lamp in testing —. **1927**, 710.
- Symposium Annual. Vol. VII. (Review), H. B. Weiser, **1930**, 421.
- Symposium Monograph. No. 6 (Review), **1929**, 68.
- Colloidal** complications in the thiocyanate method of determining soil acidity. F. O. Anderegg and R. P. Lutz, **1926**, 48.
- iodine preparations. J. J. Hopkins, **1931**, 543.
- silver; Chemical characteristics of —. G. Gaume, **1931**, 607.
- silver ointment; Determination of silver in —. G. Antoine, **1935**, 484.
- State; Chemistry of the —. (Review), J. C. Ware, **1930**, 471.
- Colloides:** Introduction à l'Étude des —. (État colloïdal et ses applications). (Review), W. Kopaczewski, **1926**, 323.
- Colloids:** (Review), H. R. Kruyt, **1928**, 116; 2nd Ed., **1930**, 777.
- in sewage. **1933**, 283.
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- Introduction to the study of —. (Review), W. Kopalzewski, **1926**, 323.
- Physics and Chemistry of —; An Introduction to the. (Review), E. Hatschek, **1926**, 112.
- Some properties of honey — and the removal of — from honey by bentonite. R. E. Lothrop and H. S. Paine, **1931**, 402.
- Colobot Peel Oil**: **1934**, 829.
- Colocynth**: Extract of —. E. M. Smelt, **1931**, 52.
- pulp; Adulteration of —. (Legal Notes), **1927**, 342.
- Cologarithms**: Non-interpolating Logarithms, — and Antilogarithms. (Review), F. W. Johnson, **1931**, 426.
- Colophony**: Colour reaction of abietic acid and —. H. Griffon, **1931**, 828.
- "Oil of amber" from —. **1931**, 200.
- Sensitive reaction for resin acids or —. F. Michel, **1930**, 343.
- Colorimeter**: A simple —. R. C. Frederick, **1927**, 469.
- correction curves; Note on —. S. L. Wright, Junr., **1927**, 97.
- Duboscq — for determining hydrogen ions in blood. J. F. McClendon, S. Russell and E. Tracy, **1927**, 43.
- Easily constructed form of micro- —. G. W. Chapman, **1930**, 443.
- Eastman universal —. **1926**, 540.
- for determining the colour of flour. **1927**, 445.
- New —. R. Legendre, **1933**, 502.
- New — based on the Lovibond colour system, and its application to the testing of cod-liver oil and other purposes. O. Rosenheim and E. Schuster, **1928**, 179.
- Photronic — as means of determining fluoride colorimetrically. L. V. Wilcox, **1934**, 503.
- Sliding-gauge —, and determination of small amounts of ammonia, nitrites, lead and iron. A. L. Bernoulli, **1926**, 649.
- Trichromatic — suitable for standardisation work. J. Guild, **1927**, 50.
- Colorimeters**: Hellige-Duboscq Nephelometers and —. **1930**, 232.
- Colorimetric scales for measuring pH values**; Stable —. P. Bruère, **1926**, 424.
- Colorimetry**: Its Applications in Analytical and Clinical Practice. (Review), H. Freund, **1933**, 310.
- Photometric Chemical Analysis. Vol. I. —. (Review), J. H. Yoe, **1929**, 193.
- Colostrum**: Composition and freezing-point of cows' —. G. D. Elsdon, **1934**, 665.
- Colour in whisky**; Rapid determination of alcohol in distilled spirits and of —. J. F. Williams, **1926**, 583.
- measurement and standardisation. **1930**, 132; **1931**, 662; **1932**, 462; **1933**, 404.
- measurements of tanning extracts. A. de la Bruère, **1930**, 657.
- of flour; A numerical expression for —. D. W. Kent-Jones and C. W. Herd, **1927**, 443.

Colour—continued.

- producing constituents of the cacao bean; Determination of the —. W. B. Adam, **1928**, 369.
- Standards; Dictionary of —. (Review), **1934**, 724.
- Stimuli; Reduction of Data on Mixture of —. D. B. Judd, **1930**, 604.
- Colour Glass standardisation**. D. B. Judd and G. K. Walker, **1928**, 180.
- Colouring Materials** for foods; Arsenic, lead, etc. in —. **1927**, 503, 529.
- for foods; Sub-Committee on —. **1927**, 503, 529; **1928**, 217.
- Colouring Matter**: Artificial Organic —. (Review), H. E. Fierz-David, **1927**, 372.
- Determination of nitrogen by the Kjeldahl method, applied to the analysis of intermediates and —. P. Sisley and M. David, **1929**, 434.
- Fluorescence of — in ultra-violet light. A. Seyewetz and J. Blanc, **1929**, 309.
- in beeswax; Origin of — and composition of propolis. G. F. Jaubert, **1927**, 418.
- in fruit juices and similar products; Detection of artificial —. A. De Kroes and A. Reclaire, **1928**, 602.
- in heavy oils. **1935**, 176.
- in "pure" gelatin; Presence of blue mineral —. A. L. Bacharach and G. N. Grinling, **1930**, 566.
- in wines; Behaviour of gelatin towards —. A. Kickton and F. Mayer, **1926**, 353.
- of butter. A. Loewy and G. Cronheim, **1933**, 411.
- of paprika in sausages; Detection of the —. W. Plahl and A. Rotsch, **1933**, 412.
- of sandal wood; Detection of dyeing with —. L. Soep, **1927**, 696.
- Plant —. LV. Occurrence of α - and β -carotene in various natural products. P. Karrer and W. Schlientz, **1934**, 293.
- used in food; Impurities in —. Sub-Committee's Report. **1928**, 217.
- Colours**: Distribution of arsenic among —. **1927**, 219.
- in food. U.S.A. Food Inspection Decision, No. 209. **1927**, 547.
- in foodstuffs; Detection of prohibited vegetable and coal tar —. J. R. Nicholls, **1927**, 585; **1929**, 335.
- in foodstuffs; Identification of the prohibited coal tar —. A. R. Jamieson and C. M. Keyworth, **1928**, 418.
- Use of buffers in determining — by means of titanium trichloride II. O. L. Evenson and R. H. Nagel, **1931**, 413.
- Columbite**: Analysis of —. **1934**, 669.
- Columbium**: Atomic weight of —. **1928**, 389; **1929**, 295; **1934**, 547.
- Combustible liquids and solids**; Commission on —. **1928**, 42, 656, 657.
- Combustion apparatus for detecting and measuring small quantities of petrol vapour**; Portable —. C. A. Neusbaum, P. L. De Verter and E. W. Deán, **1926**, 211.
- colorimeters; Benzoic acid as a standard for the standardisation of —. P. E. Verkade, **1929**, 124.

Combustion—continued.

- Flame and — in Gases. (Review), W. A. Bone and D. T. A. Townend, **1927**, 734.
- Gaseous — at High Pressures. (Review), W. A. Bone, D. M. Newitt, and D. T. A. Townend, **1930**, 302.
- method for determining bromine in organic compounds; Modified —. F. L. Smith, **1927**, 357.
- Compensator** for constant-volume gas burettes. H. R. Ambler, **1932**, 276.
- Complex-Formation**: Electrometric studies of —. II, Tartrates of bismuth. C. Morton, **1931**, 469.
- Compounds**: Carbon —; Pyrolysis of. C. D. Hurd, **1929**, 380.
- Carbon —; Scheme for the Detection of the More Common Classes of. 6th Ed. (Review), F. E. Weston, **1935**, 435.
- carbonyl and aldehyde content of organic —; Determination of. Estimation of phenylhydrazine. S. Marks and R. S. Morrell, **1931**, 508.
- complex mercury —; Gravimetric determination of copper, cadmium and nickel as. A. Taurins, **1934**, 434.
- containing CH, CH₂ and CH₃ groupings contiguous to negative groups; Colorimetric test for —. M. Goswami, A. Shaha and B. Mukerjee, **1935**, 114.
- containing five-membered mono-heterocyclic rings; Antimony trichloride reaction with —. V. E. Levine and E. Richman, **1933**, 562.
- Cubic Crystal Structure of Elements and —; Tables of. I. E. Knaggs, B. Karlik and C. F. Elam, **1933**, 314.
- hydroxyl content of organic —; Determination of. Estimation of castor oil. S. Marks and R. S. Morrell, **1931**, 428.
- hydroxylic —; Use of arylcarbimides in identifying. G. T. Morgan and A. E. J. Pettet, **1931**, 612.
- in steel; Determination of —. E. Bertrand, **1932**, 346.
- Inorganic —. See **Inorganic Compounds**.
- iodinated organic —; Determination of mercury in. R. B. Sandin and E. T. Margolis, **1935**, 841.
- isomeric unsaturated —; Quantitative determination of mixtures of. A review of the iodimetric methods and a new bromimetric method. R. P. Linstead and J. T. W. Mann, **1931**, 414.
- mercury in organic —; Anhydrous distillation method for determining. E. P. Fenimore and E. C. Wagner, **1931**, 684.
- nitro —; Microchemical detection of. **1935**, 124.
- nitro-group in some organic —; New method for detecting. P. K. Bose, **1931**, 504.
- nitroso —; Microchemical detection of. **1935**, 123.
- Organic —. See **Organic Compounds**.
- Revised nomenclature for complex — and water in —. **1926**, 193, 195.
- Sodjum in organic — determined by the uranyl acetate method. D. L. Tabern and E. F. Shelberg, **1931**, 685.

Compounds—continued.

- sulphur-containing —; Reaction of nitrous acid with cystine and related. S. A. Lough and H. B. Lewis, **1934**, 424.
- unsaturated-; Use of ozone for determining the constitution of —. J. Doeuvre, **1929**, 361.
- volatile liquid —; Micro-determination of molecular weight of. A. F. Colson, **1934**, 529.
- Conarachin**: Properties of arachin and — and the proportionate occurrence of these proteins in the arachis nut. D. B. Jones and M. J. Horn, **1930**, 395.
- Concentration** of liquid soaps; Determination of the — by the immersion refractometer. L. F. Hoyt and A. Verwiebe, **1926**, 427.
- Concrete**: silica in —, cement and mortar; Determination of soluble. D. Florentir, **1926**, 480.
- Condensed Milk**: Abnormal sweetened —. S. Dixon and J. H. Sugden, **1930**, 749.
- False labelling of —. **1932**, 246.
- fat in —; Determination of. **1927**, 406.
- in which the sucrose has altered during storage; Analysis of —. (Milk Products Sub-Committee Report No. 3), **1932**, 630.
- laevulose in sweetened —; Determination of. C. L. Hinton and T. Macara, **1931**, 286.
- Ministry of Health Regulations. **1927**, 537.
- Public Health (—) Amendment Regulations, **1927**. No. 1093. **1928**, 98.
- Regulations; Case under the —. (Legal Notes), **1926**, 459.
- sucrose in sweetened —; Determination of. (Milk Products Sub-Committee Report No. 2), **1930**, 111.
- sucrose in sweetened —; Polarimetric determination of. P. Honegger, **1926**, 496; H. D. Richmond, **1927**, 525.
- Sucrose, lactose and invert sugar determined in sweetened —. Public Health Report No. 57. G. W. Monier-Williams, **1930**, 573.
- Sugars in — determined by chloramine and polarimetric methods. **1927**, 688.
- Sweetened —. U.S.A. Food Inspection Decision No. 207. **1927**, 547.
- total solids of —; Determination of. **1927**, 403.
- Condiment**: Monosodium glutamate as a chemical —. J. E. S. Han, **1929**, 751.
- Conductivity** method for determining carbon dioxide. L. E. Bayliss, **1927**, 557.
- of Solutions and the Modern Dissociation Theory. (Review), C. W. Davies, **1930**, 469; 2nd Ed., **1933**, 645.
- Conductometric Analysis**. H. T. S. Britton, **1934**, 376.
- Conepia Grandiflora Benth**: New acid in the oil of —. F. Wilborn, **1931**, 549.
- Confectioners' Alliance**: Report of the Preservatives Determination Committee of the Chemists of the Manufacturing — and of the Food Manufacturers' Federation. Determination of sulphur dioxide. **1928**, 118.
- Confectionery**: Chemistry, Flavouring and Manufacture of Chocolate — and Cocoa. (Review), H. R. Jensen, **1931**, 768.

- Confectionery**—*continued*.
 cocoa-matter in flour —; Determination of. D. D. Moir and E. Hinks, **1935**, 439.
 Cream —. **1935**, 406.
 Cream in —. (Legal Notes), **1931**, 253, 398.
 "Real" cream —. **1935**, 754.
- Congo**: Palm oil from the Belgian —. G. S. Jamieson and R. S. McKinney, **1929**, 477.
- Coniferyl** reaction of resins. F. Reinitzer, **1926**, 644.
- Connecticut Agricultural Experiment Station**: Report on Food Products and Drug Products for 1924, **1926**, 87; for 1926, **1928**, 160; for 1927, **1929**, 160; for 1928, **1930**, 129; for 1929, **1931**, 535; for 1930, **1932**, 168; for 1931, **1933**, 285.
- Connective Tissue** content of meat; Relation of — to its protein value in nutrition. H. H. Mitchell, J. R. Beadles and J. H. Kruger, **1927**, 483.
- Constant** for oils and fats; The thiocyanogen value—a new —. H. P. Kaufmann, **1926**, 157.
- Constants**: Annual Tables of — and Numerical Data: Chemical, Physical and Technological. (Review), Vol. V, **1927**, 54. Electrical, Magnetic, Electro-chemical, Engineering and Metallurgical. **1927**, 175.
- Clerget-invertase hydrolysis — of sucrose and raffinose. H. S. Paine and R. T. Balch, **1927**, 350.
- Dissociation — of various acids in the presence of boric acid. J. Böeseken and J. Coops, **1926**, 423.
- of Fatty Oils; Relations between the —. (Review), J. Lund, **1927**, 438.
- Physical — of essential oils. **1927**, 530.
- Physical and Chemical —. (Review), G. W. C. Kaye and T. H. Laby, **1927**, 53.
- Containers**: glazed earthenware —; Use of. C. J. Stock, **1926**, 82.
- Continuous** percolation; An apparatus for — and for filtration in neutral atmospheres. B. S. Evans, **1926**, 229.
- Cooking Fats**: Classification of —. **1928**, 162.
- Cooking Vessel** metals; Solubility of — and determination of the dissolved metals. K. K. Järvinen, **1926**, 43.
- Cooling** devices; Use of liquid sulphur dioxide in laboratory —. A. F. Gill, **1928**, 306.
- of the human body; Influence of temperature, air velocity and clothing on —. **1926**, 191.
- Copper**: Action of — in iron metabolism. C. A. Elvehjem and W. C. Sherman, **1933**, 46.
 alloys; Determination of antimony in —. W. Boehm and W. Raetsch, **1932**, 538.
 alloys; Determination of antimony in — by means of sodium hydrosulphite. **1929**, 396.
 alloys; Determination of traces of antimony in —. S. G. Clarke and B. S. Evans, **1929**, 23.
 alloys; Experiments on the electrolytic analysis of certain —. A. J. Lindsey and H. J. S. Sand, **1934**, 335.
 alloys; Rapid colorimetric determination of nickel in —. V. P. Ochotin and A. P. Sytschhoff, **1932**, 798.
- Copper**—*continued*.
 Aluminium in presence of — precipitated by means of α -hydroxyquinoline. T. Heczko, **1935**, 120.
 anaemia produced on diets of whole milk and iron being due to a deficiency of —. Further proof of. J. Waddell, H. Steenbock, C. A. Elvehjem, and E. B. Hart, **1929**, 556.
 antimony in —; Determination of. W. Boehm and W. Raetsch, **1932**, 538; H. Blumenthal, **1932**, 797.
 antimony in —; Determination of small amounts of. B. Park and E. J. Lewis, **1933**, 497.
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 Application of piperidinium piperidylthioformate to the colorimetric determination of —. R. G. Harry, **1931**, 736.
 Application of the thiocyanate method for precipitating — in the confirmatory tests for cadmium and antimony. A. F. Daggett, **1929**, 679.
 arsenic in —; Determination of. **1929**, 525.
 as means of determining base-exchange in soils. J. Lavollay, **1935**, 775.
 Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.
 bismuth in —; Determination of. N. Kameyama and S. Makishima, **1933**, 637; of small amounts of —. A. J. G. Smout and J. L. Smith, **1933**, 475; L. C. Nickolls, **1933**, 684; **1934**, 620; E. W. Colbeck, S. W. Craven and W. Murray, **1934**, 395; C. O. Bannister and W. M. Boyle, **1935**, 33.
 Fiscal Policy Joint Committee's Report, **1935**, 554.
 Bronze disease of —. **1932**, 479.
 cadmium in presence of —; Detection of. R. Meurice, **1926**, 367; G. M. Karns, **1926**, 646.
 catalysts; Comparison of selenium, mercury and — in the Kjeldahl method. R. A. Osborn and A. Krasnitz, **1933**, 289.
 Colorimetric determination of —. A. Schachkeldjan, **1930**, 655.
 Colorimetric determination of — as copper sulphide. L. de Brouckère and S. Solowiejczyk, **1935**, 197.
 Colorimetric method for —. K. Shimada, **1933**, 496.
 compounds in atmospheric dusts; Occurrence and source of —. J. T. Dunn and H. C. L. Bloxam, **1933**, 500.
 content of certain pharmaceutical preparations and chemicals. N. Evers and L. A. Haddock, **1932**, 723.
 content of feeding stuffs. C. A. Elvehjem and E. B. Hart, **1929**, 421.
 contents of foodstuffs. F. Grendel, **1930**, 700.
 content of milk. G. N. Quam and A. Hellwig, **1928**, 542.
 content of milk; Effect of diet on the —. C. A. Elvehjem, H. Steenbock and E. B. Hart, **1929**, 555.
 content of plant and animal foods. C. W. Lindow, C. A. Elvehjem and W. H. Peterson, **1929**, 420.

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- content of the urine of normal individuals. M. Rabinowitch, **1933**, 358.
- corrosion of — by milk; Influence of temperature on the rate of. G. N. Quam, E. I. Solomon, and A. Hellwig, **1928**, 657.
- Delicate tests for —. I. M. Kolthoff, **1930**, 527.
- Deposition of metals on — from cyanide solution. I, New method for separating and determining small amounts of lead. B. S. Evans, **1928**, 267.
- Determination of —. G. Spacu and J. Dick, **1927**, 494.
- Determination of — with anthranilic acid. H. Funk and M. Ditt, **1933**, 567.
- Determination of — with salicylaldehyde. S. Austin and H. L. Riley, **1933**, 366.
- Determination of minute amounts of —. L. C. Hurd and J. S. Chambers, **1932**, 403.
- Determination of small quantities of — with 5,7-dibromo-o-oxyquinoline. L. W. Haase, **1929**, 618.
- "Direct Green-B": A sensitive reagent for —. P. Sisley and David, **1931**, 132.
- Drop reaction for —. **1931**, 484.
- Effect of pH on precipitation of — from acetate solutions. H. R. Fleck and A. M. Ward, **1933**, 388.
- Electrometric determination of —. I, Müller and Rudolph's method. M. E. Pring and J. F. Spencer, **1929**, 509. II, Application of Volhard's method to electro-metric analysis, **1929**, 576; III, Application of bi-metallic electrodes, **1930**, 375.
- gold in presence of large amounts of iron, lead and —; Determination of small quantities of. J. Donau, **1930**, 598.
- Gravimetric determination of — as cuprous iodide. I. M. Kolthoff and H. A. Kuylmann, **1926**, 367, 424.
- Gravimetric determination of — as thiocyanate. I. M. Kolthoff and G. H. P. van der Meene, **1928**, 177.
- Gravimetric determination of cadmium, nickel and — as complex mercury compounds. A. Taurins, **1934**, 434.
- in animal nutrition; Some biochemical and physiological aspects of —. I. J. Cunningham, **1931**, 820.
- in antiquity, **1929**, 125.
- in biological materials; Determination of —. C. A. Elvehjem and C. W. Lindow, **1929**, 245.
- in blood; Distribution of —. C. A. Elvehjem, H. Steenbock and E. B. Hart, **1929**, 555.
- in Bordeaux and lead arsenate mixtures; Determination of —. J. C. Bubb, **1931**, 551.
- in contact with rubber and kerosene; Pitting of —. **1935**, 103.
- in copper-molybdenum steel; Determination of —. H. A. Kar, **1935**, 495.
- in food and biological material; Bibliography on —. T. H. Pope, **1932**, 709.
- in food beverages, etc.; Determination of small amounts of lead and —. F. W. Richardson, **1930**, 323.

Copper—continued.

- in foods; Determination of —. A. A. D. Comrie, **1935**, 532.
- in foods; Determination of —, with special reference to milk. N. D. Sylvester and L. H. Lampitt, **1935**, 376.
- in foods; Spectrographic determination of —. **1935**, 13.
- in foodstuffs; Determination of —. L. H. Lampitt, E. B. Hughes, P. Bilham, and C. H. F. Fuller, **1926**, 327.
- in green vegetables; Determination of —. A. Hanak, **1930**, 583.
- in lead bullion; Rapid determination of bismuth and — by internal electrolysis. E. M. Collin, **1930**, 312.
- in liver and liver extracts. A. E. Mayer and C. Eggert, **1933**, 101; H. G. Rees, **1933**, 384.
- in materials containing rubber; Determination of —. F. Kirchof, **1932**, 473.
- in milk; Determination of —. L. W. Conn and Others, **1935**, 254.
- in organic compounds; Determination of —. N. N. Melnikow, **1935**, 53.
- in organic materials; Determination of —. E. Cherbuliez and S. Ansbacher, **1930**, 345.
- in organic matter; Determination of —. S. Ansbacher, R. E. Remington and F. B. Culp, **1931**, 684.
- in organic substances; Application of sodium diethyldithiocarbamate reaction to the micro-colorimetric determination of —. W. D. McFarlane, **1932**, 802.
- in presence of ferric salts; Determination of —. **1930**, 380.
- in presence of ferrous salts; Determination of —. **1930**, 379.
- in presence of iron; Detection of —. L. Szebellédy, **1929**, 63.
- in presence of iron; Determination of —. **1930**, 379; of small amounts of —. L. J. Chalk, **1930**, 187.
- in presence of iron and certain other metals; Determination of minute amounts of —. L. A. Haddock and N. Evers, **1932**, 495.
- in presence of iron, zinc and aluminium; Iodimetric determination of —. R. Lang and J. Reifer, **1933**, 496.
- in presence of oxyquinoline; Acidimetric determination of —. F. L. Hahn and E. Hartleb, **1927**, 495.
- in pure aluminium; Rapid micro-determination of —. F. Pavelka and H. Month, **1933**, 785.
- in spelter and zinc ores; Determination of cadmium and — by rapid internal electrolysis. E. M. Collin, **1930**, 495.
- in spirits. **1931**, 812.
- in tanning extracts; Determination of —. D. Burton, **1931**, 335.
- in the organism; Some physiological aspects of —. F. B. Flinn and J. M. Inouye, **1929**, 758.
- in tomato purée. **1935**, 753.
- in uranium ores; Volumetric determination of —. A. S. Russell, **1926**, 268.
- in urine and faeces; Excretion of — and its relation to the — content of the diet. S. L. Tompsett, **1935**, 331.

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in water; Test for ———. (Accidental green coloration in olive oil.) R. Marcille, **1928**, 103.

Industrial contamination of food with ———. C. G. King and G. Etzel, **1927**, 723.

Interference by ——— with the lead reduction method for the volumetric determination of tin. S. G. Clarke, **1931**, 82.

lead alloyed with ———; Analysis of. **1933**, 457.

lead in ———; Determination of small amounts of. B. Jones, **1933**, 11; B. Park and E. J. Lewis, **1935**, 495.

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Low's short iodide method for ——— modified. H. F. Bradley, **1929**, 63.

mercury in presence of ———; Determination of. **1929**, 150.

metabolism in man. Tung-pi Chou and W. H. Adolph, **1935**, 561.

metallic-; Determination of copper oxide and ——— in mixtures of the two. W. D. Bonner and B. D. Kaura, **1928**, 57.

Microchemical spot test for ———, using dithizon. **1931**, 208.

Micro-determination of ——— by means of salicyl-aldoxime. W. Reif, **1931**, 557.

Micro-determination of ——— with urobilin. A. Emmerie, **1930**, 718.

New reaction for dyestuffs containing ——— in hair, and its use in identifying dye in hair. H. Meyer, **1932**, 333.

New reagent for the colorimetric determination of minute amounts of ———. T. Callan and J. A. R. Henderson, **1929**, 650.

New sensitive colour reaction of ———. S. G. Clarke and B. Jones, **1929**, 333.

number of cellulose; Micro method for determining ———. T. F. Heyes, **1928**, 301.

number of paper; Modified method for determining the ———. B. W. Scribner and W. R. Brode, **1928**, 55.

Oxidation of rotenone by ——— in alkaline solution. R. M. Whittaker and I. Glockmann, **1935**, F88.

p-Phenylenediamine as means of detecting ———. R. J. McLlroy, **1934**, 103.

Precipitation of ——— by thiosulphate. J. Majdel, **1930**, 66.

Qualitative reaction for ———. G. Denigès, **1926**, 536.

Quantitative precipitation of ——— by tannin. M. B. Darbinian and A. G. Kankanian, **1934**, 845.

Quantitative separation of cadmium and ——— by reduction with potassium formate. E. I. Fulmer, **1931**, 687.

Rapid microchemical determination of mercury and ———. (a) G. Spacu and J. Dick; (b) G. Spacu and G. Suci, **1929**, 768.

Reagent for ———. J. V. Dubsy and V. Bencko, **1933**, 638.

refinery; Fumes from a ———. **1935**, 691.

Rôle of ——— in carbohydrate metabolism. H. L. Keil and V. E. Nelson, **1934**, 764.

Rôle of ——— in haemoglobin regeneration and in reproduction. H. L. Keil and V. E. Nelson, **1931**, 755.

Copper—continued.

Separation of beryllium from ——— by *o*-hydroxyquinoline. M. Niessner, **1929**, 434.

Separation of earth acids from ———. **1932**, 287.

Separation of iridium from ———. **1932**, 195.

Separation of rhodium from ———. **1932**, 196.

Separation of tellurium from ———. **1926**, 369.

Separation of thallium from ———. **1928**, 459.

Separation of tin from ——— by means of sodium hydrosulphite. B. S. Evans, **1932**, 362.

sodium diethyl dithiocarbamate method of determining ———; Use of amyl alcohol in. R. W. Thatcher, **1934**, 130.

solution; Observations upon Benedict's alkaline ———. (Determination of sugar in blood.) M. R. Everett, **1929**, 430.

solution; Standard alkaline ——— (Fehling reagent.) M. G. Pegurier, **1926**, 91.

solutions; Determination of reducing sugars, particularly of glucose, by alkaline ——— in presence of hydrocyanic acid. H. Herissey and A. Chalmeta, **1929**, 421.

Spectrographic method of determining small amounts of bismuth, antimony, tin and molybdenum in ———. B. Park, **1934**, 501.

Storage of manganese and ——— in the animal body and its influence on haemoglobin building. R. W. Titus and J. S. Hughes, **1929**, 609.

Test for ———. C. C. Fulton, **1933**, 238.

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Volumetric determination of ———. E. Voyatzakis, **1935**, 196.

Volumetric determination of ——— based on Spacu's reaction. L. Cuny, **1931**, 551.

Volumetric determination of ———. Study of Spacu's reaction. J. Golse, **1931**, 272.

Volumetric method for ———. D. Kőszegi, **1927**, 250.

Works; Report on ———. **1933**, 535.

Copper Acetate test for Peru balsam. E. M. Smelt, **1932**, 724.

Copper Carbonate fungicide; Standards for ———. **1934**, 825.

Copper-molybdenum Steel: copper in ———; Determination of. H. A. Kar, **1935**, 495.

Copper Oxide: Determination of metallic copper and ——— in mixtures of the two. W. D. Bonner and B. D. Kaura, **1928**, 57.

for the combustion of methane. J. R. Campbell and T. Gray, **1931**, 59.

for the oxidation of methane. J. R. Campbell and T. Gray, **1931**, 60.

for the oxidation of various gases. J. R. Campbell and T. Gray, **1931**, 60.

Copper-Pyridine reaction for saccharin. Micro ———. C. Van Zijp, **1934**, 850; J. L. L. Zwickler, **1934**, 850.

reaction of certain organic acids. A. J. Steenhauer, **1935**, 577.

reagent. J. J. L. Zwickler, **1931**, 758.

Copper Salts: Action between glycerol and ———. B. K. Vaidya, **1929**, 308.

Sensitive microchemical reaction of picric acid with ———. I. M. Korenman, **1933**, 373.

Copper Sulphate: Microchemical test for ———. **1934**, 138.

- Copper Sulphate**—*continued*.
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Specification for —, 1934, 695.
- Copper Sulphide**: Colorimetric determination of copper as —, L. de Brouckère and S. Solowiejczyk, 1935, 197.
- Copper-Zinc Alloys**: volatile constituents of —; Determination of, L. I. Weinstein and A. A. Benedetti-Pichler, 1932, 740.
- Copying Ink** pencils, 1932, 149.
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- Cordage**: Treatment against decay, 1935, 614.
- Cordials**: Orange —, 1929, 748.
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- Coriander Fruit**: Volatile oil in —, 1934, 617.
- Coriaria Intermedia**: Investigation of —, 1933, 347.
- Corks**: Behaviour of moulds on expanded —, J. Greger, 1931, 267.
- Corn**: (Maize); preparations; Analyses of —, 1931, 536.
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sugar: U.S.A. Dept. of Agriculture revised definition for —, 1931, 183.
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- Corncockle**: Feeding experiments with —, A. Smetham, 1927, 273.
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- Cornflour**: Sulphite in —, 1928, 134.
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- Cornish** cream in scones and cakes. (Legal Notes), 1935, 246.
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- Corpuscles** of mammalian blood; Presence of glutathione in the —, H. F. Holden, 1926, 95.
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- Corrosion**: Chemical research on —, 1932, 166.
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of lead in buildings, Technical Paper No. 8, F. L. Brady, 1935, 321.
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of the tin-plate container by food products, Food Investigation Board Report No. 40, 1931, 315.
-resisting steel for laboratory use, G. A. Stokes, 1929, 538.
- Corrosive** reagents; Storage and delivery apparatus for antimony chloride solution and other —, G. Middleton, 1931, 236.
- Corrosive Sublimate**: Solubility of — in ether, F. Richard, 1926, 636.
- Corynanthine**: Identification of —, J. Sidvadjan, 1932, 467.
- Cosmetic** from Tutankhamen's tomb, 1926, 448.
- Cosmetics**: Isopropyl alcohol in — detected by means of piperonal, G. Reif, 1929, 552; 1931, 115.
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- Cotarnine**: Bromocresol purple as indicator for —, 1926, 316.
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- Cotton**: Analysis of —, Rate of oxycellulose formation, D. A. Clibbens and B. P. Ridge, 1927, 361.
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- Creams:** chocolate-coated —; Sugar-tolerant yeasts in. M. B. Church, H. S. Paine and J. Hamilton, **1927**, 295.
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- Creatine and Creatinine.** (Review), A. Hunter, **1929**, 195.
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- Creosote:** coal tar — and castor oil soap disinfectant; Determination of high-boiling phenols in a. J. N. Taylor, **1928**, 452.
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- p-Cresol:** New method of separating — from its isomerides and a study of its boiling point. H. D. Gibbs, **1927**, 301.
- Cresol Red:** Use of — in acid solutions. F. R. McCrumb and W. R. Kenny, **1929**, 489.
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- Determination of *m*-cresol and *o*-cresol in mixtures of —. C. E. Sage and H. R. Fleck, **1932**, 567.
- New specific tests for distinguishing carbolic acid, the — and certain other phenols. A. H. Ware, **1927**, 335.
- Quantitative separation of phenol from —. J. N. Miller and O. M. Urbain, **1930**, 213.
- Cresyl Esters of phenyl-acetic acid.** L. C. Raiford and L. G. Hildebrand, **1929**, 616.
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- Crime:** Detection of —. W. M. Else and J. M. Garrow. (Review), **1934**, 583.
- Criminal Investigation;** Forensic Chemistry and Scientific —. (Review), A. Lucas, **1932**, 135; 2nd Ed., **1931**, 698.
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- Criminology:** Invisible Rays in the Service of —. G. Kögel. (Review), **1930**, 422.
- Spectroscopy applied to —. **1935**, 14.
- Critical tables of numerical data of physics, chemistry and technology;** International —. (Review), **1926**, 482.
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- Crocus**: Quality standard for —. E. H. Wirth, 1930, 52.
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- Crustaceans**: arsenic compounds in marine — and shell fish; On the presence of. A. C. Chapman, 1926, 548.
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- Cryoscopic measurements** of Indian milk. P. S. Macmahon and L. N. Srivastava, 1935, 307.
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- Cryoscopy** of South African Milk. L. Denis-Nathan, 1933, 574.
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- Crystalline bromides** of linseed and some other drying oils; Further notes on the —. H. Toms, 1926, 387.
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- Crystallisation** of the enzyme urease; Isolation and —. J. B. Sumner, 1926, 587, 637.
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- Culture Media**: pH value of —. J. Gibson, 1931, 312.
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- Cultures**: Control of reaction in — and enzymic digests. Food Investigation Report No. 32. F. W. Foreman and G. S. G. Smith, 1928, 339.
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- Cupferron** as means of separating and determining mercury. A. Pinkus and M. Katzenstein, 1930, 526.
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- Cupric Sulphide**: Solubility of — in alkali sulphides in presence of sulpharsenates. C. Davies and A. D. Monro, 1927, 659.
- Cupro-Nickel**: antimony in —. Determination of traces of. 1929, 27.
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- Cuprous Iodide**: Gravimetric determination of copper as —. I. M. Kolthoff and H. A. Kuyiman, 1926, 367, 424.
- Cuprous Oxide** produced in sugar analysis; Determination of —. C. S. Bisson and J. G. Sewell, 1927, 289.
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- Curing**: Influence of salts used in — on the oxidation and yellowing of lard. C. H. Lea, **1934**, 555.
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- Cyanide**: Determination of — by distillation from acid solution. H. A. Pagel and W. Carlson, **1933**, 108.
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- Cyanides**: Action of sodium borate on the reaction of alkali — with reducing sugars. J. Bougault, Z. Hardy and A. Pinguet, **1933**, 410.
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- Cyanmethaemoglobin** and the determination of methaemoglobin. Balthazard and M. Philippe, **1926**, 466.
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- Cyanogen Iodide** in iodine; Detection of —. S. Morris, E. B. Callaghan and L. Dunlap, **1930**, 528.
- Cyanogenetic glucosides**; Determination of —. L. R. Bishop, **1928**, 53.
- Cyanophoric plant**; Methods for determination of nitrogenous constituents of a —: *Prunus laurocerasus*. M. E. Robinson, **1930**, 146.
- Cyclohexanol** in the colorimetric determination of molybdenum; Use of —. L. C. Hurd and F. Reynolds, **1935**, 54.
- Cyclopaedia** of Perfumery; Parry's —. (Review), E. J. Parry, **1926**, 117.
- Cyclo-Telluro-Dimethylpentane Diketone**: Relative effectiveness of — as disinfectant. **1926**, 259.
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- Cymbopogon** Oils from India. **1930**, 210.
- Cymene** bath for Pregl's micro-combustion. A. Verdino, **1932**, 199.
- Cyprus**: Edible and poisonous fungi of —. S. G. Willimott, **1933**, 553.
Report of the Government Analyst (S. G. Willimott) for year 1929, **1931**, 458; for 1930, **1932**, 99; for 1931, **1932**, 780; for 1932, **1934**, 41; for 1933, **1935**, 179.
- Cysteine**: *o*-Benzoquinone test for —. W. C. Hess and M. X. Sullivan, **1933**, 104.
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New colour test for —. E. Dyer and O. Baudisch, **1932**, 325.
o-Quinone test for —. O. Baudisch and E. Dyer, **1933**, 171.
Sensitive reaction for —. R. Fleming, **1930**, 706.
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- Cystine**: Colorimetric determination of — by means of the uric acid reagent. C. Rimington, **1930**, 706.
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 Separation of tyrosine from large amounts of —. F. R. Greenbaum, **1935**, 486.
 Sullivan's reaction for the quantitative determination of —. J. W. H. Lugg, **1933**, 629.
Cytisine: Microchemistry of —. M. Wagenaar, **1930**, 349. Erratum, **1931**, 66.
Cytological study of water-soluble and fat-soluble constituents of citrus. J. Dufrenoy, **1929**, 431.
Cytosine Nucleotide: Isolation of guanine nucleotide and — from tea leaves. H. O. Calvery, **1927**, 354.
Czapek's Medium: **1934**, 123.

D

- Dabs**: Identification of —. **1935**, 70.
Dacrydium Cupressinum: Essential oil of —. M. S. Carrie, **1932**, 795.
Dahlia tubers; Analysis of —, and preparation of laevulose. R. F. Jackson, C. G. Silsbee and M. J. Proffitt, **1926**, 304.
Dairy Bacteriology. (Review), B. W. Hammer, **1929**, 442.
 Bacteriology. 2nd Ed. (Review), Orla-Jensen. **1931**, 775.
 chemistry; Tests on volumetric glassware used in —. (National Physical Laboratory Report), **1926**, 249.
 Chemistry; Textbook of —. (Review), E. R. Ling, **1930**, 659.
 cream; "Rich —." **1930**, 570.
 products; Analysis and composition of vegetable parchment used for packing —. P. Arup, **1931**, 149.
 products; Determination of chlorides in —. W. L. Davies, **1932**, 79.
 products; Fluorescence of —. J. A. Radley, **1933**, 527.
 research; Report on —. **1935**, 100.
Dam's Method: Iodine values of some sterols by —. A. M. Copping, **1928**, 664.
Damar Penak. R. W. Blair and F. E. Byron, **1928**, 57.
Damsons: Composition of fresh —. **1927**, 351.
Dangerous Drugs Act. Sir W. Willcox, **1926**, 319.
 Scheduling of veronal and the barbitone group. **1926**, 248.
Date: Mineral content of the Chinese — (jujube). M. P. Benoy, **1930**, 200.
Dates: Boron compounds in Persian —. **1929**, 16.
 Composition of Iraq —. M. M. Cleveland and C. R. Fellers, **1932**, 660.
 Intestinal bacteria isolated from packed —. R. F. Hunwicke and G. N. Grinling, **1928**, 395.
Datura in decomposed viscera; Applicability of the mydriatic test to the detection of —. D. N. Chatterji, **1926**, 344.
Datura Stramonium seeds; Poisoning by —. A. Sartori, **1931**, 59.
Daturic Acid from the seeds of *Datura stramonium* Linn. N. L. Manjunath and S. Siddappa, **1935**, 767.
Daylight: Artificial — illuminator. D. R. Barber, **1933**, 337.
 artificial — shades; Dyes for. **1926**, 597.
Daylight: Measurement of —. **1930**, 450; **1931**, 255; **1932**, 250; **1934**, 281; **1935**, 410.
 Measurement of ultra-violet radiation in —. J. S. Owens, **1935**, 784.
Deciphering chemically bleached writing by means of dyes. R. Mellet and A. Bischoff, **1926**, 100.
Decomposition of meat; Detection of incipient —. G. Brotzu, **1932**, 535.
 products in anaesthetic chloroform; New method for detecting —. N. L. Allport, **1931**, 706.
Deflocculating power of soaps; Comparison of the — by carbon black test. R. M. Chapin, **1927**, 102.
Dehydrating agents for gases; Use of anhydrous perchlorates as —. G. F. Smith, **1927**, 307.
Dehydration: Effect of — on the bacterial flora of eggs. G. G. De Bord, **1926**, 98.
 of volatile liquids; Apparatus for —. P. Loriette, **1927**, 107.
Dehydroguélin in derris root; Occurrence of —. E. P. Clark and G. L. Keenan, **1933**, 166.
Dehydrotoxicarol in derris root; Occurrence of —. E. P. Clark and G. L. Keenan, **1933**, 166.
Delcosine: Bromophenol blue as indicator for —. **1926**, 316.
Deliquescent substances in sized cotton materials; Determination of —. S. M. Neale, **1926**, 645.
Delphinus Delphis Lin.: Head oils of the dolphin (—). H. Marcelet, **1926**, 473.
Denbigh: Appointment of H. Lowe as Agricultural Analyst for County of —. **1932**, 519.
Denigès method for colorimetric determination of phosphates in potable waters. R. Danet, **1927**, 427.
Denigès-Oliver test for morphine. **1930**, 502; F. Bamford, **1931**, 586.
Denmark: Conditions of the production of milk in the Netherlands and —. (Ministry of Health Report), **1928**, 283.
Densimeter for use with small amounts of liquid. **1935**, 727.
Deodorisers: Perspiration —. **1927**, 531.
Deptford: Appointment of H. A. Williams as Additional Public Analyst for Metropolitan Borough of —. **1934**, 344.
Derby: Appointment of R. W. Sutton as Public Analyst for County Borough of —. **1933**, 533.
Derbyshire: Appointment of R. W. Sutton as Public Analyst for the County of —. **1933**, 398.
 Report of the County Analyst for — for the year 1934. R. W. Sutton, **1935**, 612.
Dermatitis: Alleged menthol —. (Legal Notes), **1930**, 753.
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- Chemical examination of furs in relation to — H. E. Cox, **1929**, 694; Part 2, Results of tests on furs alleged to have caused —, **1933**, 738. Part 3, Action of *p*-phenylenediamine on the skin, **1933**, 743. Part 4, Chemical reactions of dyeing with *p*-phenylenediamine and *p*-aminophenol, **1934**, 3. Part 5, The action of acid on Bandrowski's base. H. E. Cox and J. U. Lewin, **1935**, 350. Part 6, Identification of vegetable and other dyes. H. E. Cox, **1935**, 793.
- due to dyed fur; Experimental observations on —. G. H. Percival, **1931**, 754.
- due to the external use of methylated spirit. P. B. Mumford, **1926**, 47.
- Enamel as suspected cause of —. **1931**, 808.
- Examination of dyed leather in cases of alleged —. T. Callan and N. Strafford, **1931**, 625. See also list of Errata.
- from a hat lining. (Legal Notes), **1930**, 753. from metal; Alleged —. (Legal Notes), **1931**, 399.
- from oranges and lemons. S. G. Horner, **1932**, 55.
- in relation to knitted woollen goods. S. R. Trotman, **1935**, 714.
- Leathers and —. **1933**, 229.
- Note on fur —. S. A. Woodhead, **1934**, 815.
- Occurrence of — in industry. **1929**, 745.
- Preventive measures against —. **1931**, 744.
- Sugar —. (Legal Notes), **1927**, 283.
- Derride** as constituent of derris root. **1928**, 597.
- Derris Resin**: Constituents of —. R. S. Cahn and J. J. Boam, **1935**, 260.
- rotenone in —; Determination of. R. S. Cahn and J. J. Boam, **1935**, 261.
- Derris Root** as an insecticide. **1928**, 597.
- Chemical evaluation of —. P. A. Rowaan, **1935**, 483.
- dehydrodeguelin and dehydrotoxicarol in —. Occurrence of. E. P. Clark and G. L. Keenan, **1933**, 166.
- from New Guinea. **1934**, 289.
- poisoning. **1932**, 654.
- rotenone in —; Determination of. R. S. Cahn and J. J. Boam, **1935**, 261.
- Derris Uliginosa**: Rotenone content of —. **1932**, 782.
- Desiccation**: Effect of — upon nutritive properties of egg-white. II, M. A. Boas Fixsen, **1931**, 543.
- Detergents**: Applied Chemistry. Vol. I, —. (Review), C. K. Tinkler and H. Masters, **1929**, 311.
- Dutch regulations for —. **1932**, 21.
- Deterioration Value** of oils and fats. J. Gangl and W. Rumpel, **1935**, 183.
- Deuterium** as an indicator in the study of intermediary metabolism. I. R. Schoenheimer and D. Rittenberg, **1935**, 770.
- Devarda** method; Inaccuracies of the — when applied to plant materials. E. R. Ranker, **1927**, 556.
- Deville and Stas** method of separating iridium from iron. **1926**, 392.
- Devonshire**: Appointment of C. V. Reynolds as Additional Public Analyst for County of —. **1933**, 223.
- colic (lead poisoning) due to cider. M. C. N. and L. N. Jackson, **1932**, 792.
- cream in scones and cakes. (Legal Notes), **1935**, 246.
- Dextrin** in artificial diets; Use of commercial —. L. Randoin and R. Lecocq, **1926**, 638.
- in presence of glue; Determination of —. J. Alexander, **1933**, 494.
- Dextrinogenic** activity of honey at various pH values. **1930**, 667.
- Dextrinolytic** activity of malt; Suggested method for determining the —. L. Fletcher and J. B. Westwood, **1931**, 747.
- Dextrins**: Optical rotation of —. **1928**, 585.
- Quantitative separation of gum arabic and —. A. Hamy, **1929**, 253.
- Dextrose** in absence and presence of sucrose; Determination of small amounts of —. R. B. Whitmoyer, **1934**, 702.
- in malt extract. **1928**, 586.
- in presence of hydrocyanic acid; Determination of — by means of alkaline copper solutions. H. Hérissé and A. Chalmeta, **1929**, 43.
- laevulose in presence of —; Micro method for detecting and determining. F. Fischl, **1933**, 424. Erratum, **1933**, 570.
- Oxidation of — by chloramine and iodide. **1927**, 670.
- Dhupa** kernels (*Vateria indica*) and oil from India. **1930**, 761.
- Diabetes**: Mahweng berries reputed to be a remedy for —. **1932**, 313.
- Diabetic dogs**; Quantitative study of acetaldehyde in blood of normal and —. A. H. Bee and I. L. Chaikoff, **1926**, 640.
- Diabetic flour**. **1930**, 686; **1931**, 741. (Legal Notes), **1930**, 41.
- food. U.S. Food Inspection Decision No. 199. **1926**, 580.
- foods; Analyses of —. **1931**, 537.
- foods. **1928**, 160.
- wine. **1930**, 131.
- Diacetyl**: Colour reactions of carbazides and carbamides with —. G. S. Smith, **1935**, 171.
- Determination of acetyl methyl carbinol and —. C. R. Barnicoat, **1935**, 653.
- in butter; Detection and determination of —. W. L. Davies, **1934**, 46.
- in butter; Synthetic —. **1933**, 757.
- in fats to which butter flavours have been added; Detection of —. Azern and Guillot, **1933**, 42.
- in foodstuffs; Detection of —. H. Schmal-fuss and H. Barthmeyer, **1932**, 389.
- in wood vinegar. J. Pritzker, **1933**, 761.
- Diacetyl Morphine**: Methyl red as indicator for —. **1926**, 316.
- Diacetyldioxime**: Colour reactions of carbazides and carbamides with —. G. S. Smith, **1935**, 171.
- Dial**: New reaction of — (diallylmalonylurea). F. Lagarce, **1930**, 763.

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- Post-mortem transformation of veronal, gardenal and — into hydrocyanogen compounds. E. Kohn-Abrest, H. Villard, and L. Capus, **1930**, 291.
- Diallylbarbituric Acid**: Action of salts of mercury on —. P. Fleury, **1926**, 92.
- Diallylmalonylurea (Dial)**: New reaction of —. F. Lagarce, **1930**, 763.
- Dialysates**: Apparatus for the quantitative recovery of —. P. Loch, **1935**, 642.
- Diamines**: Chemical examination of dyed leathers for presence of —. F. E. Humphreys and H. Phillips, **1932**, 290.
- in hair dyes; Detection of —. C. Griebel and F. Weiss, **1933**, 417.
- in hair dyes; Detection of *p*-phenylene-diamine in presence of other —. C. Griebel and F. Weiss, **1934**, 197.
- in leather; Detection of —. W. Mather and W. J. Shanks, **1934**, 517.
- Molecular compounds of polyvalent phenols with aromatic — used as hair dyes. C. Naegeli and H. Kaltman, **1933**, 777.
- Diaminoacridine** in euflavine; Quantitative determination of —. F. Reimers, **1935**, 711.
- 2,3-Diaminophenazine** as a reagent for metal ions. T. Pavolini, **1934**, 365.
- Diastase**: Determination of starch in flour by — and acid hydrolysis. B. G. Hartmann and F. Hillig, **1931**, 322.
- Evaluation of honey on the basis of the — content. K. Braunsdorf, **1931**, 539.
- Honey —. J. Fiehe and W. Kordatzki, **1928**, 388; J. Fiehe, **1931**, 540.
- honey —; Origin of. J. Fiehe, 387.
- in heated honey. L. H. Lampitt, E. B. Hughes and H. S. Rooke, **1929**, 381.
- liquefying power of malt —; Determination of. S. Józsa and H. C. Gore, **1930**, 214.
- Merck's —, a proposal for barley analysis. W. Piratzky, **1934**, 418.
- Milk —. H. Kluge, **1933**, 168.
- Spot test for detecting —. **1934**, 508.
- value of honey. **1931**, 56.
- Diastatic activity** of honey. L. H. Lampitt, E. B. Hughes and H. S. Rooke, **1930**, 666.
- enzymes in honey; Destruction of — on heating. H. W. Boer, **1931**, 55.
- power of malt and malt extract. C. T. Bennett and F. C. L. Bateman, **1930**, 763.
- power of malt determined by potassium ferricyanide titration. F. W. Norris and W. A. Carter, **1935**, 415.
- Diatomaceous Earth**. R. Calvert (Review), **1930**, 661.
- p*-Diazobenzene-Sulphonic Acid** for acetaldehyde in ether. **1931**, 241.
- Diazonium Salts**: Detection of — by means of resorufin. H. Eichler, **1935**, 190.
- Diazotisation**: Nitrogen tetroxide as a reagent for —. B. Houston and T. B. Johnson, **1926**, 102.
- Dibenzal-Sorbitol**: Conversion of — into hexa-acetyl sorbitol. H. Jahr, **1930**, 452.
- Detection of fruit wine in grape wine by means of —. C. von der Heide and K. Hennig, **1929**, 422.
- Dibromofluorescein** as adsorption indicator. **1933**, 332.
- Direct titration of soluble orthophosphates with lead acetate in the presence of — as adsorption indicator. A. W. Wellings, **1935**, 316.
- 5,7-Dibromo-*o*-Oxyquinoline**: Determination of small quantities of copper with —. L. W. Haase, **1929**, 618.
- Dicalcium Aluminate**: Hydrated —. H. Lafuma, **1933**, 113.
- Dicarbethoxy-Guanidine**: **1927**, 248.
- Dichloro-ethyl Sulphide**: Detection and determination of — by combustion. M. Maxim, **1932**, 586.
- Dichloro-ethylene** as a solvent. D. Mann, **1932**, 586.
- of Bacteriological Equivalents. (Review), W. Partridge, **1928**, 66.
- of Colour Standards. (Review), **1924**, 724.
- Dichlorofluorescein** as adsorption indicator. **1933**, 332.
- as adsorption indicator for the volumetric determination of halides. K. Bambach and T. H. Rider, **1935**, 496.
- 2,6-Dichlorophenol-Indophenol** as a reduction indicator in the examination of foodstuffs. J. Tillmans, P. Hirsch and E. Reinshagen, **1929**, 176.
- Reducing value of plant juices containing vitamin C, as determined by —. H. H. Mottern, E. M. Nelson and R. Walker, **1933**, 48.
- solutions used for determining ascorbic acid (vitamin C); Gluco-reductone for standardising —. X. I. Kertesz, **1934**, 427.
- Dichromate** in the oxidimetric determination of cerium. R. Lang, **1934**, 646.
- titration of iron; Internal indicator for —. M. E. Weeks, **1932**, 404.
- titrations; Brucine as internal indicator in —. S. Miyagi, **1933**, 496.
- Dicodide**: Identification and determination of —. J. King, **1931**, 498.
- Dictionary**: A Chemical —. (Review), J. W. D. Hackh, **1930**, 231.
- German-English — for Chemists. 2nd Ed. (Review), A. M. Patterson, **1935**, 726.
- of Applied Chemistry. Vol. VI. (Review), Sir E. Thorpe, **1926**, 374; Vol. VII, **1928**, 181; Supplement, Vol. I, J. F. Thorpe and M. A. Whiteley, **1934**, 781; Vol. II, **1935**, 645.
- Didi Resin**: **1932**, 781.
- Diet**: Effect of — on the copper content of milk. C. A. Elvehjem, H. Steenbock and E. B. Hart, **1929**, 555.
- Introduction to the Study of —. Food and Health. (Review), A. B. Callow, **1928**, 682.
- of whole milk and iron; Further proof that the anaemia produced by — is due to a deficiency of copper. J. Waddell, H. Steenbock, C. A. Elvehjem, and E. B. Hart, **1929**, 556.
- Dietary deficiencies of milk**; Nature of —. J. E. Becker and E. V. McCollum, **1930**, 704.
- Essentials; Vitamins and Other —. (Review), W. R. Aykroyd, **1933**, 428.

- Dietetic food**; Yogurt as a medicine and ——. T. Stathopoulos, **1926**, 414.
- Diethyl Bromoacetyl Urea**: Microchemistry of ——. M. Wagenaar, **1935**, 58.
- Diethylbarbiturate** buffer. L. Michaelis, **1930**, 464.
- Diethylphthalate** in ethyl alcohol; Detection of ——. **1927**, 101.
with butyl chloride in ethyl alcohol; Determination of small proportions of ——. R. W. Hoff, **1931**, 683.
- Diets**: artificial-; Use of commercial dextrin in ——. L. Randoin and R. Lecocq, **1926**, 638.
rachitic, irradiated rachitic, and normal ——. Inorganic blood phosphorus and bone ash in rats fed on. R. A. Dutcher, M. Creighton and H. A. Rothrock, **1926**, 206.
rich in fat; Growth experiments on ——. H. Levine and A. H. Smith, **1927**, 293.
- Differential potentiometric titration**; Method for ——. D. A. MacInnes and P. T. Jones, **1927**, 50.
- Digallic Acid** as a reagent for earth acids. W. R. Schoeller, **1927**, 702.
- Digestibility** of common foodstuffs as determined by radiography. W. C. D. Maile and K. J. L. Scott, **1935**, 192.
of protein; Determination of the — by Bergeim's method. W. D. Gallup, **1929**, 247.
- Digestion**: Effect of halogen salts on peptic ——. W. M. Clifford, **1927**, 550.
Influence of peptic — in determining total carbohydrates in cereal products. B. G. Hartmann and F. Hillig, **1927**, 160.
- Digestive** and Nerve tablets. **1933**, 688.
- Digitalin**: Determination of crystallised ——. E. Perrot and P. Bourget, **1928**, 344.
- Digitalis**: Bio-assay of ——. **1926**, 43.
glucosides. Gitoxigenin and iso-gitoxigenin. W. A. Jacobs and E. L. Gustus, **1929**, 425.
glucosides; Quantitative colorimetric determination of — by means of Baljet's reagent. J. A. C. Van Pinxteren, **1932**, 179.
Keeping properties of — and some of its preparations. H. B. Haag and R. A. Hatcher, **1929**, 608.
Methods of examining ——. **1930**, 196.
Pharmacological assay of — by different methods. J. W. Trevan, E. Boock, J. H. Burn and J. H. Gaddum, **1928**, 445.
Pharmacopoeia Commission Report on ——. **1932**, 32.
Suggested standard for ——. **1926**, 196.
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- Digitalis Purpurea** Oil from seeds of ——. I. S. Mellanoff, **1927**, 718.
- Digitaria Species** of grasses; Feeding values of ——. **1935**, 101.
- Digitonide**: Micro method for determining cholesterol by oxidation of the ——. R. Okey, **1930**, 654.
- Digitonin**: Properties, isolation and quantitative determination of ——. I. S. Mellanoff, **1927**, 550.
Study of the — ergosterol complex. M. H. Pénau and Z. Hardy, **1929**, 254.
- Diguanidylnonane** as possible substitute for insulin. **1928**, 287.
- α -Dihydroergosterol** in ergosterol from ergot; Quantitative determination of ——. M. C. Hart and H. Emerson, **1932**, 328.
- Dihydrostosterol** in plant fats; Distribution of ——. R. J. Anderson, F. B. Nabenhauer and R. L. Shriner, **1927**, 164.
- Dihydroxyacetone** in blood and urine; Quantitative determination of ——. W. S. McClellan, **1928**, 230.
test for detecting glycerin in tobacco. **1926**, 385.
Use of — in detecting and differentiating phenols. A. H. Ware, **1929**, 614.
- o*-Dihydroxy-Phenols**: Colour test for ——. J. H. Quastel, **1931**, 311.
- 3,6-Dihydroxyphthalic Dinitrile** as fluorescence indicator. **1933**, 722.
- 3,6-Dihydroxyphthalimide** as fluorescence indicator. **1933**, 722.
- Dihydroxystearic Acid**: Oxidation of — by potassium permanganate in acetone. J. Bougault and G. Schuster, **1932**, 191.
- 3,6-Dihydroxyxanthone** as fluorescence indicator. **1933**, 722.
- Dika Fat**: (Irvingia butter). G. Collin and T. P. Hilditch, **1930**, 336.
- Dilaudide**: Identification and determination of ——. J. King, **1931**, 498.
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- Dilinoleno-Linolin Bromide**: Debromination of ——. **1928**, 70.
- Dill Oil**: carvone in —; Determination of. J. Reilly and P. J. Drumm, **1928**, 209.
carvone in —; Hydroxylamine method of determining. C. T. Bennett and T. T. Cocking, **1931**, 79.
- Dilo Oil**: K. W. R. Glasgow, **1932**, 530.
- Dilution** curve of cod-liver oil with antimony trichloride reagent. E. R. Norris and A. E. Church, **1930**, 458.
method; Application of the — to micro-analysis. J. B. Mederl, O. R. Trantz and W. J. Saschek, **1930**, 771.
- Dimedone**: Reaction of formaldehyde and acetaldehyde with ——. **1934**, 58.
- p*-Dimethylaminobenzaldehyde** as means of determining tryptophane. W. J. Boyd, **1929**, 354.
- Dimethylamino-Benzylidene Rhodanine**: Detection of gold, palladium and silver with ——. F. Feigl, P. Krumholz and E. Rajmann, **1931**, 485.
- Dimethylethylarsine**: Formation of ——. F. Challenger, C. Higginbottom and L. Ellis, **1933**, 235.
- Dimethyl-Hydro-Resorcinol**: Identification of small amounts of formaldehyde with ——. L. Kofler and H. Hilbck, **1930**, 528.
- Dinitroaniline** azo dyestuffs; Indicator properties of ——. H. Wenker, **1935**, 270.
- m*-Dinitrobenzene**: Microchemical colour reaction of — for the forensic detection of benzene. J. Peltzer, **1933**, 297.
Preliminary study of the colorimetric determination of ——. M. Péronnet, **1934**, 711.

- 2,4-Dinitrobenzoates:** Identification of amines as —. C. A. Buehler and J. D. Calfee, **1934**, 769.
- 3:5-Dinitro-benzoyl Chloride** as means of identifying amino acids. B. C. Saunders, **1934**, 568.
- Dinitrocresol** in foodstuffs; Detection of —. **1927**, 585.
- 2:4-Dinitrophenol** in tablets and capsules; Detection and determination of —. I. S. Shupe, **1935**, 768.
- 2,4-Dinitrophenyl-Acetyl-Hydrazine:** Indicator properties of —. A. Bloom and A. Osol, **1934**, 126.
- 2:4-Dinitrophenylhydrazine** as a means for determining santonin. O. Fernandez and L. Socias, **1932**, 580.
- as a quantitative reagent for carbonyl compounds. I. Benzaldehyde. R. E. Houghton, **1934**, 363.
- as a reagent for aldehydes and ketones; Use of —. O. L. Brady and G. V. Elmslie, **1926**, 77.
- Identification of carbonyl compounds with —. J. Ferrante and A. Bloom, **1933**, 714.
- 2:4-Dinitrophenylhydrazones:** Preparation of —. **1926**, 78.
- Dinitrosoresorcinol** for gravimetric determination of cobalt. O. Tomiček and K. Komárek, **1933**, 112.
- Dioicaine:** Microchemical test for —. **1934**, 137.
- Dionine:** Colour reaction for codeine and —. G. de Haas, **1930**, 454.
- Dioxan** as solvent in determining molecular weights by the cryoscopic method. A. E. Oxford, **1934**, 850.
- Dipalmito-Olein** from soya-bean oil; Isolation of —. K. Hashi, **1928**, 343.
- Diphenyl series;** Gravimetric method for determining the bases of the — and a new complex salt of these bases. W. Herzog, **1926**, 592.
- Diphenylamine** as internal indicator for iron. F. J. Dyer and W. B. Forbes, **1926**, 536.
- as quantitative reagent for zinc. W. H. Cone and L. L. Cady, **1927**, 730.
- Colour reaction of —. L. Desvergnès, **1929**, 243.
- Spot test for —. **1933**, 372.
- test for nitrates in milk, **1930**, 434.
- test for nitrates in milk and its reliability in presence of small quantities of chlorine; Note on —. D. R. Wood, E. T. Illing and A. E. Fletcher, **1934**, 400.
- test for nitrates in milk as means of detecting added water, and the effect of drenching cows in "nitre." D. R. Wood, A. T. Illing and A. E. Fletcher, **1931**, 249.
- Diphenylamine Sulphate:** Spectrophotometric determination of nitrites and nitrates by —. E. Tassilly and R. Savoie, **1927**, 107.
- Diphenylaminesulphonic Acid** as an indicator. L. A. Sarver and I. M. Kolthoff, **1931**, 686.
- Colorimetric determination of nitrates by —. I. M. Kolthoff and G. E. Noponen, **1933**, 368.
- Diphenyl-benzidine** test for nitrates in milk as means of detecting added water, and the effect of drenching cows with "nitre." D. R. Wood, E. T. Illing and A. E. Fletcher, **1933**, 149.
- Diphenylcarbazide** as a reagent for hydrogen peroxide. L. N. Lapin, **1935**, 841.
- as a test for chromium. N. M. Stover, **1928**, 615.
- as adsorption indicator. **1933**, 331.
- as indicator in mercury titrations; Microvolumetric analysis with —. J. V. Dubský and J. Trtílek, **1934**, 304.
- as indicator in the mercurimetric determination of chloride. J. Trtílek, **1934**, 717.
- as indicator in the mercurimetric determination of iodine. J. V. Dubský and J. Trtílek, **1935**, 200.
- Detection of magnesium by —. F. Feigl, **1927**, 730.
- Diphenylcarbazone** as indicator for argentometry. **1935**, 428.
- as indicator in mercury titrations; Microvolumetric analysis with —. J. V. Dubský and J. Trtílek, **1934**, 304.
- Diphenylthiocarbazine:** Use of — for detecting magnesium. P. Agostini, **1932**, 64.
- Diphenylthiocarbazon** as means of extracting lead. D. C. Garratt, **1935**, 817.
- for the detection of heavy metals. H. Fischer, **1933**, 567.
- for the separation of lead. **1935**, 543.
- Microchemical spot tests for some of the heavy metals, using —. H. Fischer, **1931**, 208.
- Diphtheria:** Examination for —. **1929**, 592.
- Milk-borne —. C. J. McSweeney and W. P. Morgan, **1928**, 676.
- Di-Potassium Sodium Cobaltinitrite:** Gravimetric determination of potassium as —. A. Wassilief and N. Matwejef, **1930**, 650.
- aa'-Dipyridyl** as indicator in the cerimetric titration of small amounts of iron. C. J. van Nieuwenburg and H. B. Blumendal, **1935**, 847.
- as means of determining iron in beer. G. Bode, **1934**, 116.
- as reagent for determining ferrous and total iron in natural waters. H. Müller, **1934**, 305.
- Disease:** Aspects of Age, Life and —. Sir H. Rolleston, **1929**, 130.
- Diseases:** Industrial —. (Report of the Chief Inspector of Factories and Workshops, **1928**.) **1929**, 745.
- Disinfectant fluid;** Testing of Admiralty —. T. C. Patterson and R. C. Frederick, **1931**, 93.
- high-boiling phenols in a coal-tar creosote and castor oil soap —; Determination of. J. N. Taylor, **1928**, 452.
- Sale of poisonous — by grocers. (Legal Notes), Pharmaceutical Society of Great Britain *v.* Brown, **1932**, 459.
- Disinfectants:** Limitations of phenol coefficients of coal-tar —. C. M. Brewer and G. L. A. Ruehle, **1931**, 330.
- Relative effectiveness of —. H. Lüers and F. Weinfurter, **1926**, 259.

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- Testing of —. E. K. Rideal and A. Sciver, **1931**, 249. *See also* list of Errata.
- Testing of — by the Rideal-Walker method. Q. Moore, **1927**, 98.
- Variation of phenol coefficients of coal-tar — with different test organisms. B. G. Philbrick, **1930**, 594.
- Disinfecting fluids**; Determination of phenol and its homologues in —. A. F. McCarley, **1932**, 181.
- Disodium Phosphate** in process cheese; Determination of added —. I. M. Williams, **1927**, 648.
- Dissociation** constants of various acids in presence of boric acid. J. Böeseken and J. Coops, **1926**, 423.
- Theory; Conductivity of Solutions and the Modern —. (Review), C. W. Davies, **1930**, 469.
- Distillates**: Apparatus for the separation and measurement of steam —. W. H. Simmons and C. A. Hills, **1933**, 396.
- titration of Kjeldahl —; Use of the potassium iodide and iodate method for —. H. F. Wilson and F. Mattingley, **1926**, 569.
- Distillation** apparatus; Arsenic — without ground-glass connections. B. S. Evans, **1933**, 470.
- flasks; B.S.I. Specification for —. **1935**, 42.
- fractional —; Separation of individual saturated and unsaturated hydrocarbons in coal gas by. F. E. Grey and W. P. Yant, **1927**, 359.
- Fractional — under reduced pressure, A. E. Bradfield, **1935**, 202; separator for. R. Delaby and R. Charonnat, **1929**, 124.
- Industrial —; Principles and Practice of. (Review), E. Hausbrand, **1926**, 58.
- Micro-vacuum —. R. A. Smith, **1932**, 674.
- test for heavy petroleum oils; Vacuum —. A. G. Peterkin and S. W. Ferris, **1926**, 104.
- Wood —; Technology of. (Review), M. Klar, **1926**, 59.
- Distilled spirits**; Rapid determination of alcohol in —, and of colour in whisky. J. F. Williams, **1926**, 583.
- Disulphides**: Colour reaction for —. E. Walker, **1926**, 317.
- Dithizone**: Microchemical spot tests for some of the heavy metals, using — (diphenylthiocarbazon). H. Fischer, **1931**, 208.
- test for detecting heated milk. K. Eble and H. Pfeiffer, **1934**, 827.
- Diuretic**: theobromine in —; Quantitative methods for determining. J. M. A. Hegland **1932**, 725.
- Divinylglycol** as the cause of the bitter flavour of wines suffering from bitterness. E. Voisenet, **1929**, 421.
- Dixanhydril Urea**: Oxidation of —, and a micro method for determining urea. J. M. Luck, **1928**, 607.
- Dixanthylureate**: micro-determination of urea as —; Use of Jena glass filters in. R. Guillemet, **1933**, 248.
- Dizionario** di Merceologia e di Chimica Applicata. 5th Ed. Vols. I and II (Review). G. V. Villavecchia, **1930**, 357; Vol. III, **1932**, 69; Vol. IV, **1932**, 548.
- Documentary** evidence in criminal trials; Scientific —. C. A. Mitchell, **1932**, 144.
- Documents**: Charred —. **1932**, 152.
- Commission on —. **1928**, 655.
- Contested — and Forgeries. F. Brewster, **1933**, 314.
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- Forged — in Palestine. **1930**, 49.
- Infra-red rays in the examination of charred —. **1935**, 460.
- Photography of —. **1932**, 39.
- Questioned —. **1932**, 40.
- Questioned —. 2nd Ed. (Review), A. S. Osborn, **1929**, 501.
- questioned —; Examination of. **1930**, 580.
- Dogfish**: Identification of —. **1935**, 70.
- Dogs**: acetaldehyde in blood of normal and diabetic —; Quantitative study of. A. H. Bee and I. L. Chaikoff, **1926**, 640.
- Dolphin**: Head oils of the — (*Delphinus delphis* Lin.) H. Marcelet, **1926**, 473.
- Donnan** Equilibria. (Review), T. R. Bolam, **1932**, 542.
- Donovan's Solution**: Arsenic and mercury determined in —. T. T. Cocking, **1931**, 262.
- Dorosomic Acid** from a fish oil. **1928**, 499.
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- Dotreppe's Method** for determining tungsten; Study of —. M. L. Holt, **1935**, 54.
- Double Linking**: Determination of the position of the —. R. Frogner and F. van Goetsenhoven, **1934**, 297.
- Dough**: Effect of certain salts on fermentation in —. R. H. Callow, **1934**, 156.
- Dover Sole**: Identification of —. **1935**, 70.
- Drawing** inks; Infra-red rays for differentiating —. **1935**, 457.
- reproduction and lantern-slide making. H. C. Bennett and R. Lee, **1932**, 200.
- Dried Fruits**: Boron compounds in —. **1929**, 16.
- Possible effect of sulphur dioxide when used as a preservative for —, etc. C. E. Sage, **1931**, 451.
- Sulphur dioxide in —. **1928**, 124; **1930**, 129.
- sulphur dioxide in —; Determination of. J. Miller, **1927**, 338; P. May, **1927**, 271, 526.
- sulphur dioxide lost in cooking —; Amount of, **1928**, 539.
- Vitamins in —. II, Effect of drying and of sulphur dioxide upon vitamin A content of fruits. A. F. Morgan and A. Field, **1930**, 643.
- Driers**: cobalt in —; Determination of. O. Heim, **1929**, 464.
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- Dripping**: Labelling of —. **1931**, 657.
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Drop Analysis; Quantitative —. I, Apparatus and technique. P. L. Kirk, **1934**, 63; II, Determination of calcium. R. P. Mitler and P. L. Kirk, **1934**, 64; Kjeldahl nitrogen determination and determination of non-protein nitrogen of blood. P. L. Kirk, **1935**, 642.

reactions; Qualitative Analysis by means of —. (Review), F. Feigl, **1931**, 492.

Reactions; Short Manual of Systematical Qualitative Analysis by means of Modern —. (Review), C. J. Van Nieuwenburg and I. G. Dulfer, **1934**, 66.

Systematic qualitative analysis by means of modern —. C. J. van Nieuwenburg, **1931**, 483.

Dropping-Cathode: Electrolytic analysis with the mercury —. J. Heyrovsky, **1927**, 731.

Drowning: Blood tests in connection with —. **1929**, 599.

Drug containing caffeine; Yocco, a new —. E. Perrot and A. Rouhier, **1926**, 465.

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products; Report of Connecticut Agricultural Experiment Station on Food Products and — for 1924. **1926**, 87; for 1926, **1928**, 160; for 1927, **1929**, 29; for 1928, **1930**, 129; for 1929, **1931**, 535.

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Drugs: Adulteration and Analysis of Foods and —. (Review), J. F. Liverseege, **1932**, 595.

Analysis of — and Chemicals. (Review), N. Evers and G. D. Elsdon, **1929**, 774.

Analysis of Foods and —; Aids to. 5th Ed. (Review), C. G. Moor and W. Partridge, **1935**, 646.

Analysis of pharmaceutical — by means of ultra-violet rays. P. Ernst and J. Jentschitsch, **1930**, 224.

analytic quartz lamp for testing —; Use of. P. W. Danckworrth and E. Pfau, **1927**, 707. See also list of Errata.

Artificial resins as containers for —. P. Pinten, **1935**, 769.

Bio-assay of —. J. C. Munch, **1926**, 42.

boron compounds in food and —; Study of the methods of determining. A. S. Dodd, **1929**, 645. Part 2, Experimental: Effect of fats and other organic substances on the determination. A. S. Dodd, **1929**, 715; Part 3, Conditions required for quantitative titration. A. S. Dodd, **1930**, 23.

Chemistry of —. (Review), N. Evers, **1926**, 272.

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Chemistry of Crude —. (Review), J. E. Driver and G. E. Trease, **1927**, 513.

Colour reaction of some —. J. Sivadjan, **1931**, 466.

containing anthraquinone; Determination of phenolphthalein in presence of caffeine and cinchona alkaloids and —. **1932**, 46.

Dangerous — Act. See **Dangerous Drugs Act**.

Effect of polarised light on the pharmacological properties of some —. D. I. Macht and W. T. Anderson, Junr., **1927**, 602.

essential oils in —; Determination of. T. T. Cocking and G. Middleton, **1932**, 723.

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in chewing gum. **1929**, 748.

Laboratory Manual for the Detection of Poisons and powerful —. (Review), W. Autenrieth, **1929**, 126.

Microchemical tests for benzoic acid, salicylic acid and esters of *p*-hydroxybenzoic acid in —. R. Fischer and F. Stauder, **1931**, 275.

Prohibited — in Ceylon. **1928**, 384.

santonin-bearing —; Assay of. H. M. Burlage and A. C. Smith, **1932**, 725.

Volatile oils determined in —. C. E. Sage and H. R. Fleck, **1934**, 614.

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Drunkenness: Chemical evidence of —. (Legal Notes), **1928**, 94.

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Oils; Chemistry of —. (Review), R. S. Morrell, **1926**, 432.

oils; Drying rates of synthetic resins with —. I, China wood oil. C. A. Thomas and P. E. Marling, **1932**, 668.

oils; Further notes on the crystalline bromides of linseed and some other —. H. Toms, **1926**, 387.

oils; Yellowing of oxidised —. A. C. Elm and G. W. Standen, **1932**, 735.

properties of the polymerised products of sardine oil and of methyl esters derived from sardine oil. K. Kino, **1934**, 761.

Dublin Bay Prawns: Arsenic in —. **1926**, 553.

Duboscq colorimeter; Determination of hydrogen ions in blood by means of —. J. F. McClendon, S. Russell and E. Tracy, **1927**, 43.

Duclaux Method for determining volatile fatty acids and its application to the determination of butter-fat in margarine. A. Knetemann, **1928**, 657.

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- Dulcin**: Sorbitol detected in presence of saccharin and —. G. Reif, **1934**, 44.
- Dukitan** in the animal body; Fate of —. C. J. Carr and J. C. Krantz, **1934**, 834.
- Dulcitol** in the animal body; Fate of —. C. J. Carr and J. C. Krantz, **1934**, 834.
- Durains**: Examination of —. **1934**, 35.
- Duralumin**: magnesium in —. Determination of. G. S. Smith, **1935**, 812.
- Durham**: Average composition of milk in the County of —. **1929**, 467.
Report of Public Analyst for —. (Use of glazed earthenware containers.) C. J. Stock, **1926**, 82.
- Dust**: (Review), S. C. Blacktin, **1935**, 66.
Analyses of Leeds —. **1933**, 471.
atmospheric —; Comparative tests of instruments for determining. (U.S.A. Public Health Bulletin No. 144.) **1926**, 36.
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in the air of cotton card rooms; Nature of —. British Cotton Industry Research Association, **1931**, 210.
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quartz — particles in the atmosphere; Determination of. F. Löwe, **1933**, 571.
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- Dusts**: lead, copper, zinc and arsenic compounds in atmospheric —; Occurrence and source of. J. T. Dunn and H. C. L. Bloxam, **1933**, 500.
- Dutch** Cheshire cheese sold as Cheshire cheese. (Legal Notes), **1934**, 485.
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lard; Luminescence of a genuine — in ultra-violet light. A. Van Druten, **1929**, 347.
regulations for the production of milk. (Ministry of Health Report), **1928**, 283.
- Dutch-Process** chocolate and cocoa. Food Inspection Decision No. 202 of U.S. Dept. of Agriculture. **1927**, 88.
- Dvi-Manganese**: Discovery of eka- and —. J. G. F. Druce, **1926**, 482.
- Dye**: Blue — as evidence of the age of writing. C. E. Waters, **1933**, 776.
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- Dyed** materials; Standardisation of methods of testing fastness of —. **1935**, 43.
- Dyeing**: Chemistry of —. (Review), J. K. Wood, **1927**, 255.
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- Dyeing**—*continued*.
tannins; Analysis of — by the cinchonine method. Y. Uyeda, **1930**, 646.
with *p*-phenylenediamine and *p*-amino-phenol; Chemical reactions of —. H. E. Cox, **1934**, 3.
with the colouring matter of sandal wood; Detection of —. L. Soep, **1927**, 696.
- Dyes**: Action of hot concentrated sulphuric acid on —. R. B. Forster, **1935**, 117.
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as an indication of adulteration in butter. D. Henville and W. M. Paulley, **1929**, 413.
Bactericidal action of —. A. Philibert and J. Risler, **1928**, 450.
Basic — determined by precipitation with phosphotungstic acid. R. W. Payne, **1934**, 843.
Deciphering chemically bleached writing by means of —. R. Mellet and A. Bischoff, **1926**, 100.
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fastness of —; Standardisation methods for testing. A. Crummett, **1926**, 649.
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medicinal —; Determination of acriflavine and related. A. D. Powell and G. F. Hall, **1933**, 705.
Reactions of — with cell substances. I, Staining of isolated nuclear substances. II, Differential staining of nucleoprotein and mucin by thionine and similar —. E. G. Kelley and E. G. Miller, **1935**, 627.
Report of the Society of Dyers and Colourists on the work of the Fastness Committee in Fixing Standards for Light, Perspiration and Washing. (Review), **1934**, 783.
Studies on the combination between certain basic — and proteins. L. M. C. Rawlins and C. L. A. Schmidt, **1929**, 487.
Use of buffers in determining — by means of titanium trichloride II. O. L. Evenson and R. H. Nagel, **1931**, 413.
vegetable and other — used on furs; Identification of. H. E. Cox, **1935**, 793.
- Dyestuff Intermediates**: Estimation of — by coupling. S. Ueno and H. Sekiguchi, **1935**, 492.
- Dyestuffs** and Coal-Tar Products. (Review), Beagall, Challenger, Martin and Sand, **1927**, 256.
Behaviour of different starches towards iodine and —. J. Hübner and K. Venkataraman, **1926**, 351; Part 2, **1927**, 37.
containing copper in hair; New reaction for — and its use in the identification of dye in hair. H. Meyer, **1932**, 333.
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- Fastness of vat — on linen. **1933**, 228.
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 Intermediates for —. (Review), A. David-
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 New method of determining lead in organic
 material, with special reference to —.
 N. L. Allport and G. H. Skrimshire, **1932**,
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 Quantitative analysis of —. S. R. Trot-
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- Diatomaceous —. (Review), R. Calvert,
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 acids; Precipitation of — by sodium com-
 pounds. (Investigations into the analytical
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 mineral associates. VI.). W. R. Schoeller
 and C. Jahn, **1926**, 613.
 acids; Quantitative precipitation of the —
 and certain other oxides from tartrate
 solution. W. R. Schoeller and H. W.
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- Colour reaction of rare — with quinalizarin.
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 hydrolytic acidity of decolorising —;
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Easter Eggs: Chocolate —. **1935**, 753.
Eastman universal colorimeter. **1926**, 540.
Easton's Syrup: strychnine in —. Deter-
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Eberth's Bacillus: Action of neon light on —.
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 oxygen absorbed and albuminoid ammonia in
 sewages and —; Method for the com-
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 baking powder. Alleged false label. (Legal
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lecithin; Biological distinction of plant lecithin and — by means of the complement-combination method. O. Mezger, H. Jesser and M. Volkmann, **1933**, 167.

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preservation and the registration of premises (Ministry of Agriculture and Fisheries Notice.) **1929**, 746.

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products; Quantitative determination of cholesterol and lecithin, and evaluation of —. J. Tillmans, H. Riffart and A. Kühn, **1931**, 118.

products; Report on eggs and —. J. C. Palmer, **1930**, 134.

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white; Determination of total solid matter and density of — by means of the refractometer. H. J. Almquist, F. W. Lorenz and B. R. Burmester, **1932**, 659.

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Egg Plant; Composition of fruit of — at different stages of maturity. C. W. Culpepper and H. H. Moon, **1934**, 115.

Eggs; acid-soluble phosphoric acid in —; Rapid method of determining. J. Fitelson and I. A. Gaines, **1932**, 43.

adulteration of —; New form of. V. Froboese, **1935**, 253.

Age of — estimated by means of ultra-violet fluorescence. J. E. H. van Waeningh and J. E. Heesterman, **1928**, 113.

Agricultural Produce (Grading and Marking Regulations, 1928). **1929**, 172; **1930**, 45, 635.

Ammonia content of cold-storage —. H. C. Lythzoe, **1927**, 596.

bacterial flora of —; Effect of dehydration on the. G. G. de Bord, **1926**, 98.

black-rot of —; Anaerobic bacteria causing. R. M. Bohart, **1930**, 206.

Carbohydrate content of the proteins in the white of hens' eggs. M. Sørensen, **1934**, 701.

Changes on storing —. **1935**, 687.

coal-tar colours in hens' —; Detection of. J. Grossfeld and H. R. Kanitz, **1935**, 700.

Composition of shell —. L. C. Mitchell, **1932**, 522.

Composition of whites, yolks and whole broken — from commercial egg-breaking establishments. L. C. Mitchell, S. Alfend and F. J. McNall, **1933**, 480.

Contents of phosphorus, sulphur and alkalis in hens' —. J. Grossfeld and G. Walter, **1934**, 491.

Decomposition and preservation of —. A. Tanke and L. Jirak, **1935**, 701.

Detection of altered —. J. Grossfeld and J. Peter, **1935**, 253.

Detection of preservation and ageing. K. Elbe, H. Pfeiffer and R. Bretschneider, **1933**, 161.

Determination of age of — in the summer months. A. Schrempf, **1933**, 350.

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- Investigation of —. K. Eble and H. Pfeiffer, **1935**, 478.
- iodine in —; Micro-determination of. H. J. Almquist and J. W. Givens, **1933**, 643.
- Iodised —. A. D'Ambrosio, **1933**, 481.
- Labelling of — in America. **1929**, 161.
- lecithin in —; Decomposition of. L. C. Mitchell, **1932**, 523.
- Marks removed from — with acetic acid. (Legal Notes), **1931**, 32.
- Mineral constituents and freezing-point of the white and yolk of hens' —. J. Straub and C. M. Donck, **1934**, 701.
- new-laid —; Sale of. **1928**, 647.
- new laid —; Sale of imported — as. (Legal Notes), **1926**, 298.
- not of the nature, substance and quality. (Legal Notes), **1926**, 141.
- pH value of white and yolk of hens' —; Increase in the. P. F. Sharp and C. K. Powell, **1931**, 322.
- Preservation of — with "dry ice." **1932**, 35.
- preserved-; Marking of —. **1929**, 173.
- Proteolysis in stored —. A. K. Balls and T. L. Swenson, **1934**, 629.
- Relation between amount of ultra-violet light received by hens and amount of antirachitic vitamin in — produced. J. S. Hughes, L. F. Payne, R. W. Titus and J. M. Moore, **1926**, 207.
- Removal of identification marks from —. (Legal Notes), **1930**, 42.
- Removal of origin marks from —. (Legal Notes), **1929**, 664, 743.
- Report on egg products and —. J. C. Palmer, **1930**, 134.
- rich in iodine. A. Jaschik and J. Kieselbach, **1932**, 105.
- Salmonella infection of —. **1933**, 758.
- Storage of —. (Food Investigation Board Report No. 26), **1926**, 247.
- suspected of being "preserved"; Examination of —. J. R. Nicholls, **1931**, 383.
- unsaponifiable matter in —, wheat flour and alimentary pastes; Determination of. R. Hertzwig and L. H. Bailey, **1926**, 306.

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- Unsound —. A Magistrate's powers. (Legal Notes), **1926**, 572.
- vitamin contents of —; Effect of chemical preservation upon the stability of the. E. Tso, **1926**, 312.
- washed, abraded and oiled —; Detection of. P. F. Sharp, **1932**, 657.
- Ego Oil**: Unsaponifiable matter of —. M. Tsujimoto, **1930**, 153.
- Egypt**: albumin in ancient —; Sources of. H. S. Shrewsbury, **1926**, 624.
- marking ink in —; Alleged use of. C. A. Mitchell, **1927**, 27.
- Moringa aptera* seed and oil from —. **1930**, 762.
- Nature of the colour of pottery, with special reference to that of ancient —. A. Lucas, **1929**, 686.
- The Waters of —. A. Azadian. Vol. I, **1931**, 282; Vols. XII and XIII, **1931**, 698.
- Woods used in ancient —. K. P. Oakley, **1932**, 158.
- Egyptian butter-fats**; Fatty acids of —. H. Atkinson, **1928**, 520.
- materials and industries about 1350 B.C. A. Lucas, **1933**, 634.
- Materials and Industries; Ancient —. A. Lucas. (Review), **1927**, 59; 2nd Ed., **1935**, 64.
- materials; Problems in connection with ancient —. A. Lucas, **1926**, 435.
- pigments; Infra-red rays in the examination of ancient —. **1935**, 458.
- sesame and cotton-seed oils; Thiocyanogen values of some —. H. Atkinson, **1934**, 399.
- tombs; Composition of some fatty materials found in ancient —. A. Banks and T. P. Hilditch, **1933**, 265.
- Eicosenic Acid** in pilot whale oil; A new —. Y. Toyama and T. Ishikawa, **1934**, 831.
- Eijkman** fermentation test as an aid in detecting faecal organisms in water. L. W. Leiter, **1929**, 484.
- Eka-Manganese**: Discovery of dvi- and —. J. G. F. Druce, **1926**, 482.
- Elaeostearic Acid**: Determination of —. **1930**, 360.
- from the seed oil of karasuuri; New stereoisomer of —. Y. Toyama and T. Tsuchiya, **1935**, 571.
- Halogen absorption of —. **1929**, 445.
- in pomegranate seed oil; New stereoisomer of —. Y. Toyama and T. Tsuchiya, **1935**, 570.
- α -Elaeostearic Acid**: Constitution of —, the most important component of Chinese wood oil (tung oil). J. Böseken, **1929**, 305.
- of China wood oil (tung oil). J. Böseken, **1928**, 54.
- β -Elaeostearic Acid** Glyceride and wood oil. Partial halogen addition to unsaturated fatty acids. H. P. Kaufmann and C. Lutenberg, **1929**, 304.
- α -Elaeostearic Triglyceride** in tung oil. **1928**, 75.
- Elaeostearin**: Thiocyanogen absorption of —. **1926**, 265.

- Elaidic Acid** and oleic acid in presence of each other; Determination of —. J. P. K. Van der Steur, **1927**, 609.
 Passage of — into tissue phospholipids. R. G. Sinclair, **1935**, 832.
- Elaidin** reaction. H. N. Griffiths and T. P. Hilditch, **1933**, 416.
 test; Notes on a semi-quantitative modification of —. H. N. Griffiths and T. P. Hilditch, **1934**, 312.
- Elaidyl Alcohol**: Oxidation of —. G. Collin and T. P. Hilditch, **1933**, 564.
- Elasmobranch Oils**: Composition of the fatty acids present as glycerides in —. T. P. Hilditch and A. Houlbrooke, **1926**, 246.
- Elderberry juice**; Refractometric studies on —. **1931**, 461.
- Electrargol**: Differentiation reactions of argyrol, collargol, protargol and —. C. Vaille, **1934**, 422.
- Electrical conduction** of cotton; Influence of ash constituents on —. A. C. Walker and M. H. Quell, **1933**, 364.
 precipitation as a means of measuring suspended dust. **1926**, 4.
 resistance of wood as a measure of its moisture content. A. J. Stamm, **1927**, 732.
 transference of vitamin C. R. B. McKinnis and C. G. King, **1930**, 592.
- Electricity**: Constants and Numerical Data; Annual Tables of —. (Review), **1927**, 175.
- Electro-Analytic** determination of thallium as thallic oxide. A. Jilek and J. Lukas, **1929**, 681.
- Electrochemistry**: Constants and Numerical Data; Annual Tables of —. (Review), **1927**, 175.
 Laboratory Manual of —. (Review), E. Müller, **1931**, 621.
 Principles and Applications of —. (Review), H. J. Creighton, **1929**, 192.
- Electrode** combination for rapid potentiometric analysis; New —. W. Hiltner, **1933**, 723.
 Determination of quinine, cinchonine and cinchonidine with the quinhydrone — and the choice of end-points in alkaloidal titrations. E. B. R. Frideaux and F. T. Winfield, **1930**, 561.
 glass —; Notes on the technique of. H. A. Bromley, **1925**, 533.
 hydrogen-; Comparison of pH determinations as obtained by means of — and colorimetric methods. C. G. Johnston, **1928**, 609.
 Hydrogen — vessel. A. J. Lindsey, **1932**, 573.
 Metal-connected glass —. M. R. Thompson, **1933**, 307.
 Quinhydrone — as means of determining the hydrogen ion concentration of wine. R. Dietzel and E. Rosenbaum, **1927**, 600.
 Use of the quinhydrone —. G. M. Moir, **1931**, 445.
- Electrodes**: Application of bi-metallic — in the electrometric determination of copper. M. E. Pring and J. F. Spencer, **1930**, 375.
- Electrographic** methods of microchemical analysis. Collected references. R. Jirkovsky, **1935**, 123.
- Electrolysis**: Determination of tin by rapid —. J. Svěda and R. Uzel, **1929**, 366.
 Fractional separation of the rare earths by —. J. W. Neckers and H. C. Kremers, **1928**, 355.
 Internal — as means of determining bismuth in lead ores. E. M. Collin, **1930**, 680.
 Rapid determination of bismuth and copper in lead bullion by internal —. E. M. Collin, **1930**, 312.
 Rapid internal — for determining cadmium and copper in spelter and zinc ores. E. M. Collin, **1930**, 495.
 Separation of metals by "internal —." H. J. S. Sand, **1930**, 309.
- Electrolytic** analysis; Application of controlled potential to microchemical —. A. J. Lindsey and H. J. S. Sand, **1935**, 739.
 analysis; New apparatus for —. H. J. S. Sand, **1929**, 275.
 analysis of certain alloys of antimony, copper and tin. A. J. Lindsey and H. J. S. Sand, **1934**, 335.
 analysis with the mercury dropping cathode. J. Heyrovsky, **1927**, 731.
 cell for use with the mercury cathode. A. D. Melaven, **1930**, 416.
 determination of cobalt. D. H. Brophy, **1931**, 831.
 determination of gallium. E. Reichel, **1932**, 334.
 determination of lead as dioxide and its conversion into lead monoxide by ignition. A. J. Lindsey, **1935**, 598.
 determination of lead in urine. T. Cooksey and S. G. Walton, **1929**, 97.
 determination of nickel in the presence of iron; Two sources of error in the —. C. Marie and J. Berthelot, **1927**, 48.
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 method of determining arsenic in chemicals. N. Evers, **1926**, 526.
 method of determining copper in foodstuffs, following quinosol separation. **1926**, 332.
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 method of determining sodium and potassium. J. L. Stoddard, **1927**, 660.
 method of investigating the circulation of gold in the animal organism. S. Lomholt, **1926**, 97.
 separation of lead and bismuth with controlled potential. E. M. Collin, **1929**, 654.
 separation of lead and antimony, and its application to the determination of lead in tartar emetic. E. M. Collin and H. J. S. Sand, **1931**, 90.
 separation of lead as peroxide in non-ferrous alloys. Part I, B. Jones, **1933**, 11.
 separation of metals; Method for —. D. J. Brown, **1926**, 267.
 separations by graded potentials. A. Lassieur, **1926**, 597.
- Electrometric** analyses of solutions of hypochlorites. F. Aribat, **1931**, 765.

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- determination of copper. I, Müller and Rudolph's method. M. E. Pring and J. F. Spencer, **1929**, 509; II, Application of Volhard's method to electrometric analysis, **1929**, 576; III, Application of bi-metallic electrodes, **1930**, 375.
- determination of tellurium. W. T. Schrenk and B. L. Browning, **1926**, 162.
- determination of the acidity of writing inks. H. A. Bromley and A. de Waele, **1926**, 567.
- determination of zinc by ferrocyanide. G. G. Reisaus, **1927**, 106.
- determinations in tannin solutions. H. Schweitzer, **1933**, 496.
- measurement of hydrogen ion concentration; Ruler for the interconversion of electromotive force readings and pH values in the —. J. Grant, **1930**, 658.
- method for determining the pH value of gastric contents; Comparison of the colorimetric and —. G. Kahn and J. Stokes, Junr., **1926**, 528.
- titration; New type of end-point in — and its application to iodimetry. C. W. Foulk and A. T. Bawden, **1926**, 539.
- titration of chromium in steel and ferrochrome. F. Spindeck, **1931**, 64.
- titration of phenols in alcoholic solution. W. D. Treadwell and G. Schwarzenbach, **1928**, 398.
- titrations. Chloramine-T as titrating reagent. A. McMillan and W. Easton, **1928**, 111.
- Electromotive** force readings; Ruler for the interconversion of — and pH values in the electrometric measurement of hydrogen ion concentration. J. Grant, **1930**, 658.
- Electron**-diffraction camera; Finch —. **1934**, 584.
- Electrostatic** method for determining fusain in bituminous coal. J. D. Davis and J. A. Younkins, **1929**, 616.
- Elon** and sodium sulphite as reducing agents in the colorimetric determination of phosphorus. G. van der Lingen, **1933**, 755.
- Emanation**: Atomic weight of —. **1928**, 160.
- Embryology**: Chemical —. Vols. I, II and III. (Review), J. Needham, **1932**, 204.
- Emetine**: Bromine as a reagent in determining —. **1931**, 730.
- Determination of —. F. C. Sinton, **1931**, 751.
- Methyl red as indicator for —. **1926**, 316.
- Empire Marketing Board**, Report No. 15. The relative values of cod-liver oils from various sources. J. C. Drummond and T. P. Hilditch, **1931**, 533.
- Emulsification** of cod-liver oil; A factor inhibiting —. E. Lester Smith, **1931**, 66.
- Emulsifier**: Simple laboratory —. R. C. Smith, **1927**, 366.
- Emulsin**: Spot test for detecting —. **1934**, 508.
- Emulsion**: iodine value in aqueous —; Determination of. J. Fialkow, **1927**, 246.
- Emulsions** and their Technical Treatment; Theory of —. (Review), W. Clayton, **1928**, 185.

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- Malt extracts and oil —. I, Composition of commercial malt extract and cod-liver oil —. J. M. Jones and J. McLachlan, **1928**, 506; II, Vitamin A content of commercial malt extract and cod-liver oil —; III, Testing of malt extract and cod-liver oil — for vitamin A. J. M. Jones and N. Evers, **1928**, 506.
- photographic —; Determination of silver in. J. P. Lawrie, **1930**, 216.
- Enamel** as suspected cause of dermatitis. **1931**, 808.
- containing antimony. F. M. Litterscheid, **1928**, 501.
- pigments; Infra-red rays in the examination of —. **1935**, 458.
- Enamel-ware**: Antimony compounds extracted from — by citric acid solutions. R. H. Burns, **1935**, 220.
- Antimony in —. F. C. Bullock, **1934**, 623; G. W. Monier-Williams, **1934**, 489; also **1935**, 103.
- Specification for —. J. H. Coste and D. C. Garratt, **1935**, 215.
- Enamels**: Antimony —. K. Beck and W. A. Schmidt, **1928**, 302.
- boron in —; Test for. **1934**, 721.
- Encyclopaedia**: Chemical —. (Review), C. T. Kingzett, **1928**, 464.
- End-Point**: New type of — in electrometric titration and its application to iodimetry. C. W. Foulk and A. T. Bawden, **1926**, 539.
- Energen** products; Analysis of —. **1930**, 129.
- Energy Values** of feeding stuffs; Computation of the net —. M. Kriss, **1926**, 156.
- Engineering**: Chemical — and Chemical Catalogue, **1931**, 282.
- Constants and Numerical Data; Annual Tables of —. (Review), **1927**, 175.
- problems in refrigeration. **1926**, 144.
- Engineering Co-ordinating Research Board**: **1928**, 223.
- Engravings**: Cleaning of —. **1927**, 81.
- Enolic** form; New general reagent for the — II, E. V. Zappi, **1932**, 330.
- Enzyme** Actions and Properties. (Review), E. Waldschmidt-Leitz, **1930**, 69.
- activity; Relation of the stability test of sewage to —. W. R. Woolridge, **1933**, 490.
- Affinity of different types of — for their substrates. J. B. S. Haldane, **1928**, 307.
- asparaginase; Observations upon the —. W. F. Geddes and A. Hunter, **1928**, 347.
- titration; Examination and application of the Gates method of proteolytic —. A. Gilman and G. R. Cowgill, **1930**, 765.
- urease; Isolation and crystallisation of —. J. B. Sumner, **1926**, 587.
- uricase; Note on the —. H. O. Calvery, **1927**, 422.
- yield in fungus cultures; Determination of — Z. I. Kertesz, **1931**, 193.
- Enzymes**: Action of carbon monoxide on certain oxidising —. M. Dixon, **1928**, 52.
- Behaviour of vitamin C (ascorbic acid) and other reductors towards catheptic and other —. H. v. Euler, P. Karrer and F. Zehender, **1934**, 295.

Enzymes—continued.

- Detection of — by spot tests. B. N. Sastri and M. Sreenivasaya, **1934**, 508.
 in honey; Destruction of diastatic — on heating. H. W. Boer, **1931**, 55.
 Monographs on Biochemistry. —. (Review), J. B. S. Haldane, **1931**, 343.
 of milk; Pathogenic bacteria and mixed —. C. Gorini, **1927**, 486.
 of pineapples; Effect of ethylene on —. L. O. Regeimbal and R. B. Harvey, **1927**, 354.
 pectolytic —; Formation of. S. J. Waksman and M. C. Allen, **1933**, 633.
 pectolytic power of filtration —; Determination of. A. Mehlitz and H. Maass, **1935**, 834.
 Production of certain — by *Bacterium pruni*. S. L. Jodidi, **1927**, 722.
 Reaction of azine compounds with proteolytic —. G. M. Richardson and R. K. Cannan, **1929**, 761.
 secreted by hymenomycetic mushrooms; Soluble —. Comparison of the anti-oxygenic power of tannin and of the phenolic constituents of essential oils. L. Lutz, **1931**, 820.

Enzymic conversion of uric acid into allantoinic acid. R. Fosse, A. Brunel and R. de Graeve, **1929**, 557.

- digests; Control of reaction in cultures and —. Food Investigation Report No. 32. F. W. Foreman and G. S. G. Smith, **1928**, 339.
 hydrolysis of rhamnucoside; Primeverose and rhamnigenol, the products of —. M. Budel and C. Charaux, **1926**, 41.
 hydrolysis of starch; Separation of products resulting from —. J. L. Baker and H. F. E. Hulton, **1935**, 765.

Ephedra alkaloids. T. and H. Smith, **1930**, 142.**Ephedra Alata:** Pseudo-ephedrine from —. O. F. Black and J. W. Kelly, **1928**, 166.**Ephedras:** Indian —. Their extraction and assay. S. Krishna and T. P. Ghose, **1929**, 297.**Ephedrine:** New colour reaction of —. J. Sivadgian, **1930**, 763.

- Sivadgian's colour reaction for identifying —. W. H. Hartung, F. Crossley and J. C. Munch, **1931**, 467.

Epinephrine: Bio-assay of —. **1926**, 43.
 in blood; Chemical method for estimating —. J. C. Whitehorn, **1935**, 331.New colour reaction for —. **1927**, 41.**Erasures and ultra-violet light.** **1931**, 666;
 C. A. Mitchell, **1933**, 532.**Erbium:** Atomic weight of —. **1928**, 160;
1929, 296; **1934**, 547.**Ergobasine:** A new alkaloid of ergot of rye. A. Stoll and E. Burckhardt, **1935**, 483.**Ergometrine:** Spectrographic absorption of — in relation to the B.P. colour test. N. L. Allport and S. K. Crews, **1935**, 626.**Ergosterol:** Action of X-radiation upon vitamin D in ergosterol. R. R. Harrison, R. R. Peacock and S. Wright, **1928**, 667.**Ergosterol—continued.**

- Activation of — with radium emanation. R. B. Moore and T. De Vries, **1931**, 678.
 and its esters; Studies on highly purified —. C. E. Bills and E. M. Honeywell, **1929**, 53.
 antirachitic potency of — irradiated by ultra-violet light and by exposure to cathode rays; Comparison of. A. Knudson and C. N. Moore, **1929**, 183.
 Biological inertness of irradiated mycosterols other than —. O. Rosenheim and T. A. Webster, **1929**, 248.
 Chemical differentiation of the antirachitic factor of autumn and winter butter from irradiated — and the vitamin D of cod-liver oil. S. K. Kon and R. G. Booth, **1934**, 53.
 Colour reaction of —. Differentiation of — and irradiated —. R. Meesemaeker, **1930**, 404.
 content of yeast; Factors determining the —. I. Species. C. E. Bills, O. N. Massengale and P. S. Prickett, **1930**, 522.
 Deterioration of — under varying storage conditions. L. R. Ellison and G. F. Hall, **1935**, 92.
 Feeding experiments with activated —. C. E. Bills and A. M. Wirick, **1930**, 342.
 Formation and destruction of vitamin D on the irradiation of —. D. Van Stolk, E. Dureuil and Heudebert, **1929**, 54.
 Formulae for —. **1934**, 74; A. L. Bacharach, **1933**, 605.
 from ergot; Quantitative determination of α -dihydroergosterol in —. M. C. Hart and H. Emerson, **1932**, 328.
 in human blood. L. H. Dejust, Van Stolk and E. Dureuil, **1928**, 552.
 in yeast; Cerevisterol, a sterol accompanying —. E. M. Honeywell and C. E. Bills, **1933**, 104.
 Influence of solvents on the activation of —. C. E. Bills, E. M. Honeywell and W. M. Cox, Junr., **1931**, 678.
 Irradiation of —. T. A. Webster and R. B. Bourdillon, **1929**, 52.
 Isomerisation of — by means of fuller's earth. F. G. McDonald and C. E. Bills, **1930**, 711.
 Photochemical reactions of —. E. H. Reerink and A. van Wijk, **1930**, 290.
 Preparation and antirachitic activation of some derivatives of cholesterol and —. D. W. MacCorquodale, H. Steenbock and H. Adkins, **1930**, 587.
 Some properties of —. F. Wokes and S. G. Willmott, **1928**, 610; A. L. Bacharach, E. L. Smith and S. G. Stevenson, **1933**, 128.
 Specific colour reaction for —. O. Rosenheim, **1929**, 355.
 Specificity of — as parent substance of vitamin D. O. Rosenheim and T. A. Webster, **1928**, 551.
 structural formula of —. A. L. Bacharach, **1933**, 605.
 Study of the digitonin — complex. M. H. Pénau and Z. Hardy, **1929**, 254.
 Toxicity of irradiated —. **1932**, 176.

- Ergosterol**—*continued*.
 vitamin *D* from —; Photo-chemical production of. O. Rosenheim and T. A. Webster, **1927**, 652.
- Ergot** alkaloids; Biological and spectroscopic tests on —, with notes on the Maurice Smith colour test. F. Wokes and H. Crocker, **1932**, 45.
 alkaloids; Colour test for —. N. Evers, **1927**, 601.
 alkaloids; Reaction for —, ergotamine, ergotoxine and ergotinine. H. W. Van Urk, **1929**, 479.
 and Ergotism. (Review), G. Barger, **1932**, 348.
 Biological testing of —. **1926**, 196.
 Colorimetric assay of —. N. L. Allport and T. T. Cocking, **1932**, 725.
 α-dihydroergosterol in ergosterol from —; Quantitative determination of. M. C. Hart and H. Emerson, **1932**, 328.
 Ergobasine: a new alkaloid of —. A. Stoll and E. Burckhardt, **1935**, 483.
 Identification and determination of —. A. Tschirch, **1927**, 238.
 in flour; Colorimetric determination of —. F. S. Okoloff, **1929**, 352.
 in flour; Serological determination of —. F. S. Okoloff and I. G. Akimoff, **1929**, 353.
 Loss of activity on keeping —. **1930**, 196.
 Sterols of —. M. C. Hart and F. W. Heyl, **1930**, 454.
 Pharmacopoeia Commission Report on —. **1932**, 333.
 preparations; Assay of —. E. Lozinski, G. W. Holden and G. R. Diver, **1933**, 705.
 preparations; Bio-assay of —. **1926**, 43.
 Separation of active principle of —. **1935**, 248.
 Toxicological detection of —. H. Kluge, **1935**, 266.
 Vitamin *D* in —. E. Mellanby, E. Surie and D. C. Harrison, **1929**, 766.
- Ergot Oil**: Chemical composition of —. W. F. Baughman and G. S. Jamieson, **1928**, 387.
- Ergotamine**: Reaction for —. H. W. Van Urk, **1929**, 479.
 Relative activity of ergotoxine and —, with special reference to the assay of ergot preparations. E. Lozinski, G. W. Holden and G. R. Diver, **1933**, 705.
- Ergothioneine**: New test for —. G. Hunter, **1928**, 292.
- Ergotinine**: Reaction for —. H. W. Van Urk, **1929**, 479.
- Ergotoxine**: Reaction for —. H. W. Van Urk, **1929**, 479.
 Relative activity of ergotamine and —, with special reference to the assay of ergot preparations. E. Lozinski, G. W. Holden and G. R. Diver, **1933**, 705.
- Erucic Acid**: Direct identification of rapeseed oil by isolation of —. A. W. Thomas and M. Mattikow, **1926**, 315.
- Erythritol**: Precipitation of — by metallic hydroxides in alkaline media. **1932**, 783.
- Erythroquin** reaction; Identification of cinchona preparations by the —. R. Monnet, **1935**, 482.
- Erythroquinine** reaction; Detection of quinine in urine by the —. R. Monnet, **1933**, 628.
- Erzen**: Ausgewählte Methoden für Schiedsanalysen und Kontradiktorischen Arbeiten bei der Untersuchung von —. (Review), **1932**, 677.
- Escallops**: Arsenic in —. **1926**, 551.
- Esparto Grass Wax**: Acids of —. F. J. E. Collins, **1935**, 269.
- Essential Oil** in spice; Determination of the —. C. Griebel, **1926**, 584.
 of clary; Absolute —. Y. Volmar and A. Germstad, **1928**, 398.
 of *Dacrydium cupressinum*. M. S. Carrie, **1932**, 795.
 of mustard in black mustard; Determination of —. R. Meesemaecker and J. Boivin, **1930**, 584.
 of mustard in mustard flour; Determination of —. L. Colombier, **1926**, 308; Astric and M. Mousseron, **1927**, 353.
- Sub-Committee of the Standing Committee on Uniformity of Analytical Methods: Report on the estimation of cineole in. **1927**, 276; Physical Constants, **1927**, 530; Report on the determination of acetylisable constituents in essential oils, **1928**, 214; Determination of phenols in essential oils, **1928**, 215; Report on Physical Constants (2), **1929**, 335; Report No. 6. Determination of citral in lemon oil, **1931**, 109; Report No. 7. Determination of solubilities, **1930**, 386; Report No. 8. Determination of cineole in camphor oil and other cineole-containing oils, **1931**, 738; Report No. 9. Determination of carvone and menthone, **1932**, 378; Report No. 10. Determination of citronellal, **1932**, 773; Report No. 11. Determination of aldehydes other than citronellal, **1934**, 105.
- Essential Oils**: acetylisable constituents in —; Determination of. **1928**, 214.
 aldehydes in —; General method of determining, with particular reference to the determination of citronellal in Java citronella oil and citral in lemon oil. C. T. Bennett and M. S. Salamon, **1927**, 693.
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 from mushrooms. F. W. Freise, **1935**, 414.
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- Germicidal powers and capillary activities of certain —. S. Rideal, E. K. Rideal and A. Sciver, **1928**, 553.
- Germicidal value of Australian — and their pure constituents. **1927**, 295.
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- primary phenylethyl alcohol in —; Identification of. S. Sabetay, **1929**, 615.
- Solubility tests for —. **1930**, 386.
- The —. (Review), H. Finnmøre, **1927**, 111.
- Ultra-violet radiation of —. C. P. Wimmer and M. H. Kennedy, **1930**, 468.
- Essex**: Report of the County Analyst for — for the Fourth Quarter, 1930. B. Dyer and G. Taylor, **1931**, 251.
- Essigsprit**: **1935**, 705.
- Esterase** in adipose tissue; Relative concentration of lipase and —. J. S. Hepburn and H. McD. Moore, **1934**, 292.
- Esters** as adulterants of cassia oil and their detection. J. Callaway and T. N. Bennett, **1932**, 58.
- ethyl — prepared from hydnocarpus oil; Analytical values of. **1927**, 33.
- in alcoholic liquids; Determination of —. J. Hossack, **1935**, 170.
- in aqueous and cottonseed oil solutions; Refractometric determination of alcohols and —. J. C. Munch, **1926**, 314.
- of fatty acids; Nutritive value of pure —. N. M. Cox, *Junr.*, **1934**, 119.
- of fatty acids; Stability of carotene in ethyl —. F. G. McDonald, **1934**, 120.
- of the component fatty acids of linseed oil; Film characteristics of —. B. H. Thurman and W. R. Crandall, **1929**, 186.
- of vitamin E; Biological utilisation of —. H. S. Olcott, **1935**, 713.
- used as solvents; Poisoning by vapours of certain —. P. Duquenois and P. Revel, **1934**, 641.
- Etching** and polishing lead, tin, and some of their alloys for microscopic examination. J. R. Vilella and D. Beregekoff, **1927**, 732.
- Ethane**: Analysis of mixtures of hydrogen, methane and —. O. J. Walker and S. N. Shukla, **1931**, 274.
- Oxidation over a platinised silica-gel. **1934**, 198.
- Ether**: aldehyde in —; Determination of. E. P. Phelps and A. W. Rowe, **1926**, 308.
- Anaesthetic —. **1932**, 718.
- anaesthetic —; Preservation of. C. L. Hewer, **1929**, 352.
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- ethyl-; An unrecorded constituent of commercial —. H. King, **1928**, 105.
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- Quality of commercial —. H. Leffmann and C. C. Pines, **1930**, 399.
- Solubility of corrosive sublimate in —. F. Richard, **1926**, 636.
- Tests for impurities in —. G. Middleton and F. C. Hymas. I, Test for peroxides. **1928**, 201; II, Tests for acetaldehyde. **1931**, 238; III, Tests for acetone. **1931**, 243.
- Ultra-violet rays as a test for the stability of anaesthetic —. S. G. Liversedge, **1934**, 815.
- Ethers**: Reactions of anaesthetic — with potassium hydroxide and with mercury, and the test for foreign odours. E. Mallinckrodt, *Junr.*, **1927**, 718.
- Ethersol** for detection of vitamins in oils. **1930**, 588.
- 4-Ethoxyacridone** as fluorescence indicator. **1933**, 722.
- Ethoxyl Group**: Apparatus for the micro-determination of —. R. Guillemet, **1933**, 247.
- Modified micro method of determining —. H. R. Nanji, **1934**, 96.
- Vieböck and Schwappach method for determining —. E. P. Clark, **1932**, 402.
- Ethoxyphenyl-naphthostilbazonium Chloride** as fluorescence indicator. **1933**, 722.
- Ethyl Alcohol**: Analysis of mixtures containing acetone, isopropyl alcohol and —. C. A. Adams and J. R. Nicholls, **1929**, 2.
- and hydrogen peroxide; Suitability of mixtures of —. W. A. Woodard and J. Pickles, **1935**, 47.
- butyl and isopropyl alcohols and acetone in fermentation liquors; Quantitative determination of —. G. L. Stahly, O. L. Osburn and C. H. Werkman, **1934**, 319.
- butyl chloride and diethyl phthalate together in —; Determination of small proportions of. R. W. Hoff, **1931**, 683.
- Determination of —. **1929**, 2.
- in fusel oil; Determination of —. J. M. Macoun, **1933**, 664.
- in mixtures containing acetone and its homologues; Determination of —. R. W. Hoff and J. M. Macoun, **1933**, 749.
- Isopropyl alcohol as substitute for — in determining the acid values of fats and oils. H. A. Schuette and M. P. Smith, **1927**, 101.
- methanol in —; Determination of. F. S. Mortimer, **1927**, 482.
- methyl alcohol in presence of —; Determination of small amounts of. M. Flanzy, **1935**, 632.
- Modification of Thorpe and Holmes's method for determining —. S. S. Aiyar and P. S. Krishnan, **1935**, 237. Erratum in, **1935**, 537.

- Ethyl Alcohol**—*continued*. normally present in human and animal tissues; Isolation, identification and quantitative determination of —. A. O. Gettler, J. B. Niederl and A. A. Benedetti-Pichler, **1933**, 369.
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- Ethyl Bromide** in biological media; Determination of very small proportions of —. F. L. Hahn, **1935**, 627.
- Ethyl Carbonate** in chloroform. **1926**, 23.
- Ethyl Chloride** in chloroform; Determination of alcohol and —. C. Newcomb, **1926**, 19.
- Ethyl Esters** of fatty acids; Stability of carotene in —. F. G. McDonald, **1934**, 120.
of hydrocarpus oil; Analytical values, of. **1927**, 33.
- Ethyl Ether**: Unrecorded constituent of commercial —. H. King, **1928**, 105.
- Ethyl Hexabromostearate**: Preparation of — from linseed oil. **1926**, 388.
- Ethyl Hydrocupreine**: Bromocresol purple as indicator for —. **1926**, 316.
- Ethyl Iodide**: Determination of small amounts of —. R. D. Cool, **1932**, 585.
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- Ethyl Morphine**: Bromine as a reagent in determining —. **1931**, 729.
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- Ethyl Petrol**: Carbon deposit from —. **1929**, 540.
- Ethyl Phthalate** test. H. Wales, **1927**, 161.
- Ethyl Protocatechuic Aldehyde**: Comparative study of methyl and —. L. Klotz, **1929**, 752.
- Ethyl Vanillin** in flavouring extracts; Detection of —. **1925**, 752.
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- Ethylene**: Action of — on pure starch. H. E. Rea and R. D. Mullinix, **1927**, 597.
as means for the quantitative determination of palladium. S. C. Ogburn, Junr., and W. C. Brastow, **1933**, 366.
Determination of — by absorption in a solution of silver nitrate. V. N. Morris, **1929**, 487.
Effect of — on the enzymes of pineapples. L. O. Regeimbal and R. B. Harvey, **1927**, 354.
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- Ethylene Chlorhydrin**: Colorimetric method for determining —. M. B. Sapadinsky, **1928**, 556.
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- Ethylene Dichloride**: Bibliography of —. W. A. Gersdorff, **1933**, 126.
- Ethylene Glycol**: Microchemical tests for —. •H. Alber, **1930**, 295.
Rapid qualitative test for — and its application in the presence of glycerol. A. W. Middleton, **1934**, 522.
triethanolamine in presence of —; Determination of. **1935**, 79.
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- Ethylene Glycol Monoacetate** as a selective solvent for the separation of paraffins from other oils. K. B. Edwards and R. Lacey, **1935**, 717.
- Ethylene Oxide**: Determination of —. O. F. Lubatti, **1932**, 794.
- Ethylenic nitriles**: Determination of —. G. Heim, **1931**, 129.
- Eucalyptol**: B.P. revision. J. Hendry and P. A. Berry, **1935**, 481.
- Eucalypts**: Identification of the principal commercial Australian timbers other than —. H. E. Dadswell and A. M. Eckersley, **1935**, 616.
- Eucalyptus**: Chemical composition of four Australian pale-coloured woods of the genus —. W. E. Cohen, A. G. Charles and A. B. Jamieson, **1934**, 128.
Simple tests for identifying the coloured woods of the genus —. **1935**, 475.
- Eucalyptus Oil** as anti-ferment. **1928**, 612.
B.P. revision. J. Henry and P. A. Berry, **1935**, 481.
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- Eucodal**: Identification and determination of —. J. King, **1931**, 498.
- Euflavine**: **1932**, 295.
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- Eugenol**: New reaction for —. C. J. Enklaar, **1927**, 299.
- Euquinine**: Microchemistry of —. M. Wagenaar, **1934**, 506.
- Europium**: Atomic weight of —. **1928**, 160; **1929**, 296; **1934**, 547.
- Euxenite**: **1935**, 284.
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- Evrard Method** of determining cadmium. L. C. Hurd and R. W. Evans, **1933**, 241.
- Excreta**: antimony in —; Determination of. F. Bamford, **1934**, 101.
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- Exeter**: Appointment of C. V. Reynolds as Additional Public Analyst for County Borough of —. **1933**, 223.
- Expert Witness**: The Scientific Detective and the —. 2nd Ed. C. A. Mitchell, **1931**, 698.
- Explosives**: Vol. III. (Review), A. Marshall, **1933**, 61.
- Exposed for Sale**: Meaning of the words "—" (Legal Notes), **1928**, 348.
- Extract**: meat-; Determination of moisture in —. C. Dedlow and D. T. Smith, **1925**, 521.

- Ext. Cocae and Ext. Cocae Liq. B.P.C.:** Assay of —. W. A. N. Markwell, **1935**, 419.
- Extraction** apparatus for bituminous road surfaces. F. J. Nellensteyn, **1930**, 300. * See also list of Errata.
- apparatus for rubber, cellulose, fats, etc. W. H. Stevens, **1931**, 528.
- of liquid fatty acids of linseed oil; Fractional —. G. Agde, **1926**, 364.
- Extractor:** A continuous —. D. Henville, **1928**, 380.
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- Fabrics:** Cube photometer for comparing the whiteness of —. A. Adderley, **1929**, 684.
- Measurement of colour of textile — and some applications to problems of fading. P. W. Cunliffe, **1930**, 225.
- research. **1935**, 177.
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- Textile — of ancient Egypt. **1926**, 446.
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- Face Powders** as cause of lead poisoning. **1931**, 812.
- containing lead. **1932**, 655.
- Identification of —. **1935**, 686.
- Fachini's Reaction** for detecting olive residue oils. R. Marcille, **1929**, 346.
- Factories and Workshops:** Report of the Chief Inspector of — for 1928. Industrial diseases. **1929**, 745; for 1930, **1931**, 743; for 1933, **1934**, 626.
- Fading:** Measurement of colour of textile fabrics and some applications to problems of —. P. W. Cunliffe, **1930**, 225.
- Tests for —. J. Grant, **1934**, 439.
- Faecal organisms** in water; Eijkman fermentation test as an aid in detecting —. L. W. Leiter, **1929**, 484.
- Faeces:** calcium in —, tissues and milk; Determination of. R. G. Corley and W. Denis, **1926**, 208.
- Excretion of copper in — and its relation to the copper content of the diet. S. L. Tompsett, **1935**, 331.
- fat in —; Improved method for the routine determination of. E. C. Wood and T. W. Simpson, **1934**, 817.
- indigestible residue in —; Biochemical method for determining —. R. D. Williams and W. H. Olmsted, **1935**, 330.
- lead in —; Determination of traces of. **1934**, 794, 799.
- mercury in urine and —; Quantitative determination of. N. E. Schreiber, T. Sollmann and H. S. Booth, **1928**, 447.
- tartaric acid in —; Colorimetric determination of. **1932**, 587.
- Unrecognised toxic substances in human —. D. C. Watson, **1928**, 114.
- Faience** and its manufacture in ancient Egypt. **1933**, 656.
- used in ancient Egypt. **1926**, 436.
- Fairhall** process of determining lead in urine. **1929**, 726.
- Falling Drop** method for determining specific gravity. H. G. Barbour and W. F. Hamilton, **1926**, 596.
- Fälschungen:** (Review), S. Türkel, **1931**, 141.
- Farm Foods:** Unit values of constituents of —. **1935**, 101.
- Fastness** of dyed materials; Standardisation of methods of testing —. **1935**, 43.
- of dyes; Standardisation of methods for testing the —. A. Crummett, **1926**, 649.
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- Fat:** abdominal — of frozen rabbits; Yellowing of. J. H. Vickery, **1932**, 520.
- blood —; Titration method for. J. L. Stoddard and P. E. Drury, **1930**, 53.
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- from the seeds of *Vateria indica* Linn. S. V. Puntambekar and S. Krishna, **1933**, 620.
- globules in milk; Nature of the protein surrounding the —. R. W. Titus, H. H. Sommer and E. B. Hart, **1928**, 163.
- Growth experiments on diets rich in —. H. Levine and A. H. Smith, **1927**, 293.
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- Hardened — in beef — detected from the iodine value of the solid fatty acids separated by Twitchell's method. S. C. L. Gerritzen and M. Kauffman, **1928**, 44.
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- in soap; Sub-Committee on the determination of unsaponified —. Report No. 2. **1935**, 537.
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- neutral — in sulphonated oils; Determination of. R. Hart, **1929**, 306; **1930**, 62.
- of beef liver and other tissues; Neutral —. W. R. Bloor and R. H. Snider, **1930**, 518.
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- of gas-stored chickens; Chemical changes in —. C. H. Lea, **1935**, 44.
- of hogs; Influence of the ration upon the composition of the body —. N. R. Ellis and H. S. Isbell, **1926**, 524.
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- rancid —; Inactivation of vitamin A by. W. C. Powick, **1926**, 259.
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- Sparing action of — on vitamin B. II, Rôle played by melting-point and degree of unsaturation of various fats. H. M. Evans and S. Lepkovsky, **1932**, 468; III, Rôle played by glycerides of single fatty acids. **1932**, 469.
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- Fat-soluble** constituents of citrus; Cytological study of —. J. Dufrenoy, **1929**, 431. vitamins. See **Vitamins**.
- Fatal Dose** of strychnine; Proof of —. V. Mount, **1926**, 531.
- Fats**: Absorption spectra and fluorescence of —. H. P. Kaufmann, **1929**, 309.
- acid values of oils and —; Isopropyl alcohol as substitute for ethyl alcohol in determining. H. A. Schuette and M. P. Smith, **1927**, 101.
- Acid values of oils and —. New method of determining the barium values of oils and —. W. L. Davies, **1928**, 172.
- Acidity of oils and — determined by the quinhydrone electrode in non-aqueous solutions. H. Seltz and L. Silverman, **1930**, 210.
- Action of light on —. C. H. Lea, **1933**, 425.
- Aldehydes in rancid —. **1934**, 697; C. H. Lea, **1934**, 702.
- animal; Highly unsaturated fatty acids in some —. J. B. Brown and C. C. Sheldon, **1934**, 831.
- Anti-oxidants and the autoxidation of —. H. A. Mattill, **1931**, 200.
- antioxygens present in —. Nature of. I, Separation of fatty derivatives from "antioxygen" by distillation. T. P. Hilditch and J. J. Sleightholme, **1932**, 320.
- Auto-oxidation of —. II. H. S. Olcott, **1935**, 114.
- Biological oxidation of —. **1935**, 38.
- Butyric and caproic acids determined in —. J. Grossfeld and F. Battay, **1931**, 750.
- Butyrised —. Butter-aroma. D. W. Steuart, **1935**, 172.
- Changes in — during frying. F. R. Porter, H. Michaelis and F. G. Shay, **1932**, 660.
- Chemistry of oils and —. **1926**, 143.
- Comparison of susceptibilities of oils and — to oxidation. C. H. Lea, **1935**, 114.
- Component glycerides of partially hydro-generated —. T. P. Hilditch and E. C. Jones, **1932**, 661.
- Compound glycerides of hen body —. T. P. Hilditch and W. J. Stainsby, **1935**, 559.
- containing linolenic acid; Analysis of — by means of the thiocyanogen value of. Analysis of linseed oil. H. P. Kaufmann and M. Keller, **1929**, 304.
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- Crystallisation of —. **1930**, 508.
- decomposition of oils and —; Evidence of. J. Stamm, **1926**, 410.
- Deterioration of oils and — and its detection. J. Pritzker and R. Jungkunz, **1926**, 635.
- Differential halogen absorption of oils and —. J. W. Croxford, **1929**, 445.
- Dutch regulations for —. **1932**, 21.
- edible; Detection and determination of a proprietary oil (Sonderöl) added to —. H. Schmalfluss and H. Werner, **1932**, 784.

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- edible-; Fatty acids of chicken fat and other —. J. Grossfeld, **1932**, 112.
- edible-; Solidification points of —. T. Meyer, **1927**, 236.
- edible-; Separation and determination of solid fatty acids in —. J. Grossfeld and A. Simmer, **1930**, 451.
- Edible Oils and —; Their Substitutes and Adulterants. (Review), G. D. Elsdon, **1927**, 61.
- Effect of — on the determination of boron compounds in food and drugs. A. S. Dodd, **1929**, 715.
- Estimation of fully-saturated glycerides as an aid in the analysis of —. B. C. Christian and T. P. Hilditch, **1930**, 75.
- Extraction apparatus for —. W. H. Stevens, **1931**, 528.
- fatty acids in —; Quantitative determination of the water-insoluble, higher saturated. S. H. Bertram, **1927**, 489.
- from intact seeds and fruits; Detection of rancidity in —. A. Niethammer, **1929**, 548.
- “fruit coat” —; General features common to most. T. P. Hilditch, **1933**, 484.
- Glycerides of oils and —. XII, Glycerides of lauric and myristic acids. A. Bömer and K. Ebach, **1928**, 603.
- Industrial Chemistry of — and Waxes. (Review), T. P. Hilditch, **1928**, 63.
- Insect —. Fat from aphidian parasites of the terebinth. J. Timon-David, **1928**, 236.
- Iodimetric determination of the oxidised products in —. J. Gangl and W. Rumpel, **1935**, 183.
- Irradiation of —. I, Standardised method of use of ultra-violet light. L. H. Lampitt, N. D. Sylvester and P. Bilham, **1935**, 577.
- Ketone rancidity of —. I, New Method of detection. K. Täufel and H. Thaler, **1932**, 466.
- lecithin in some —; Quantitative determination of. E. Foyn, **1931**, 464.
- Luminescence of oils and —. A. Van Raalte, **1928**, 617; **1929**, 110.
- New colour reactions with certain oils and —. A. F. McCarley, **1931**, 104.
- of brown sea-weeds. B. Russell-Wells, **1932**, 472.
- of Japanese birds. R. Koyama, **1928**, 543.
- of the body of the pig. I, Influence of ingested fat on the component fatty acids. R. Bhattacharya and T. P. Hilditch, **1932**, 256; II, Some aspects of the formation of animal depot fats suggested by the composition of their glycerides and fatty acids. A. Banks and T. P. Hilditch, **1932**, 531; III, Influence of body temperature on the composition of depot fats. H. K. Dean and T. P. Hilditch, **1934**, 286.
- of the palm-fat group in lard; Preliminary tests for detecting small amounts of —. A. Peter, **1935**, 182.
- Oils, — and Fatty Foods. (Review), E. R. Bolton, **1928**, 363.

Fats—continued.

- Oleic acid rancidity of —. II, Measurement of rancidity. K. Täufel and J. Müller, **1931**, 259.
- plant —; Distribution of dihydrostosterol in. R. J. Anderson, F. B. Nabenhauer and R. L. Shriner, **1927**, 164.
- Proposed method for identifying and estimating oils and —. J. R. Stubbs and A. Lees, **1933**, 211.
- Quantitative oxidation of double linkings in oils and — by per-acetic acid. New method of determining the degree of unsaturation. W. C. Smit, **1930**, 526.
- Rancidity changes and the flavour of —. C. R. Barnicoat, **1931**, 748.
- Rancidity in —. **1931**, 531. A. Taffel and C. Revis, **1931**, 323.
- Rancidity of —. **1930**, 508.
- Rancidity of — determined by Stamm's reaction. S. Korpácy, **1934**, 183.
- Rancidity of — due to auto-oxidation. VI, Technique and evaluation of the Kreis reaction. K. Täufel and P. Sadler, **1934**, 353.
- rancidity of —; Taffel and Revis method for estimating. J. K. Giles, **1934**, 48.
- rancidity of —; Tests for incipient. W. L. Davies, **1928**, 498.
- Rancidity reactions of —. P. Bruère and A. Fourmont, **1932**, 319.
- Rate of formation of fully-saturated glycerides during hydrogenation of different natural —. T. P. Hilditch and H. Paul, **1935**, 828.
- Reaction of chloramine with —. B. M. Margosches and M. Frischer, **1927**, 609.
- Seed —. See **Seed Fats**.
- Separation of solid — into their constituents. A. van Raalte, **1929**, 605.
- Some Indian seed —. D. R. Dhingra, G. L. Seth and P. C. Speers, **1933**, 350.
- Spectrographic data of natural — and their fatty acids in relation to vitamin A. A. E. Gillam, I. M. Heilbron, T. P. Hilditch and R. A. Morton, **1931**, 471.
- sterol iodine values of — determined by the Bolton and Williams method; Preliminary notes on. A. C. Bose, **1935**, 160.
- Susceptibility of — to oxidative rancidity. D. P. Grettie and R. C. Newton, **1931**, 749.
- Thiocyanogen absorption of oils and —. H. P. Kaufmann, **1926**, 264.
- Thiocyanogen, value of —. H. P. Kaufmann, **1926**, 157; **1928**, 613.
- to which butter flavours have been added; Detection of diacetyl in —. Azern and Guillot, **1933**, 42.
- Unsaponifiable Matter in —; Appointment of Sub-Committee on. **1931**, 738.
- unsaponifiable matter in —; Report No. 1 of the Sub-Committee on Determination of Unsaponifiable Matter in Oils and Fats. **1933**, 203; Report No. 2. Determination of unsaponified fat in soaps. **1935**, 537.
- Note on B.P. limits for “free fat” in soaps. **1934**, 104.
- unsaponifiable matter in oils and —; Determination of. E. L. Smith, **1928**, 632.

Fats—continued.

- used in ancient Egypt. 1926, 442, 447, 448.
- Vegetable Oils and ——. (Review), G. S. Jamieson, 1932, 349.
- Fatty extracts of certain organs; Reaction of** — with the antimony trichloride test for vitamin A. W. H. Wilson, 1928, 48.
- materials found in ancient Egyptian tombs; Composition of ——. A. Banks and T. P. Hilditch, 1933, 265.
- Fatty mixtures; Detection of castor oil in** ——. Vizern and Guillot, 1927, 161.
- Substances of Japanese shell-fish. M. Tsujimoto and H. Koyanagi, 1935, 418.
- substances; Determination of sulphur dioxide in ——. A. W. Knapp and R. J. Phillips, 1928, 149.
- Fatty Acid from a fish oil; New** ——. H. Marcelet, 1928, 499.
- mixtures; Application of capillarity measurements to ——. R. Dubrisay, 1926, 111.
- of liver lipids; Highly unsaturated ——. Preparation of arachidonic acid. J. B. Brown, 1929, 113.
- of the seed fat of *Myristica malabarica*. G. Collin, 1933, 351.
- Fatty Acids: Action of iodine chloride solutions on** — with conjugated double linkings. Determination of the iodine value. E. T. Gelber and J. Böeseken, 1929, 305.
- Adulteration of sweet wine and its detection by determination of the lower — (butyric acid). A. Miermeister and F. Battay, 1931, 404.
- and component glycerides of Indian ghee. R. Bhattacharya and T. P. Hilditch, 1931, 161.
- and component glycerides of some oleo oils. A. Banks and T. P. Hilditch, 1932, 388.
- and component glycerides of some palm oils of low free acidity. T. P. Hilditch and E. E. Jones, 1930, 701.
- associated with cassava starch. L. Lehrman, 1932, 527.
- associated with rice starch. L. Lehrman, 1929, 548.
- bromine derivatives of —; Reduction of. W. Kimura, 1932, 59.
- Dripping with excess of free. (Legal Notes), 1930, 572.
- Duclaux method for determining volatile — and its application to the determination of butter-fat in margarine. A. Knetemann, 1928, 657.
- Errors in analysis of alkaloids caused by presence of soap or —. H. R. Watkins and S. Palkin, 1927, 290.
- extracted from millet oil. 1933, 322.
- from cod-liver oil; Absorption spectra of the mixed —. W. J. Dann and T. Moore, 1934, 51.
- from rye oils. 1930, 736.
- High-molecular — in linseed and soya bean oils. J. Grossfeld, 1930, 519.
- higher-; Conversion of — into their barium salts. H. H. Escher, 1929, 252.

Fatty Acids—continued.

- higher saturated-; Determination of the molecular weights of the — and its use for determining lignoceric acid in hardened arachis oil mixtures. J. Grossfeld, 1930, 138.
- highly unsaturated — stored in the lard from pigs fed on menhaden oil; Nature of —. J. B. Brown, 1931, 187.
- Hydrogenation of — and of mixtures of — with neutral oils. R. G. Pelly, 1928, 110.
- hydroxylated —; New method for determining acetyl value of lipids, applicable to. E. S. West, C. L. Hoagland and G. H. Curtis, 1934, 429.
- in butter-fat; Isolation and identification of some hitherto unrecorded —. A. W. Bosworth and J. B. Brown, 1934, 183.
- in edible fats; Separation and determination of solid —. J. Grossfeld and A. Simmer, 1930, 451.
- in fats and fatty acids; Quantitative determination of the water-insoluble, higher, saturated —. S. H. Bertram, 1929, 489.
- in herring, cod-liver, pilot-whale blubber and aburazame liver oils; Highly unsaturated —. Y. Toyama and T. Tsuchiya, 1934, 831.
- in linseed oil. 1932, 233.
- in the body fat of hogs; Effect of fat in food upon individual —. N. R. Ellis and H. S. Isbell, 1926, 524.
- in the liver of the sheep. K. Turner, 1931, 50.
- in the oils of some common fowls and in animal fats; Highly unsaturated —. J. B. Brown and C. C. Sheldon, 1934, 831.
- in tissues; Distribution of unsaturated —. III, Vital organs of beef. W. R. Bloor, 1929, 112.
- Influence of — on Bömer's melting-point method. F. J. F. Muschter and R. Smid, 1926, 464.
- isomeric unsaturated —; Formation of — in the hydrogenation of oils. S. Ueno, 1934, 762.
- Melting and solidification points of hydrogenated waxes and oils and of their —. S. Ueno, G. Inagaki and H. Tsuchikawa, 1932, 113.
- Mixed — in head and blubber oils of the sperm whale. T. P. Hilditch and J. A. Lovern, 1928, 352.
- Nutritive value of pure esters of —. N. M. Cox, Junr., 1934, 119.
- of butter; Further observations on factors which influence the component —. H. K. Dean and T. P. Hilditch, 1934, 285.
- of butter; Variations in the component — due to changes in seasonal and feeding conditions. T. K. Hilditch and J. J. Sleightholme, 1930, 702.
- of chicken fat and other edible fats. J. Grossfeld, 1932, 112.
- of chrysalis oil; Constituents of the unsaturated —. W. Kimura, 1928, 352.
- of coconut oil; The lower —. E. R. Taylor and H. T. Clarke, 1928, 44.
- of cod-liver oil. Y. Toyama, 1927, 245.

Fatty Acids—continued.

- of cohune nut fat. T. P. Hilditch and N. L. Vidyarthi, **1928**, 228.
- of Egyptian butter fats. H. Atkinson, **1928**, 520.
- of glycerides of partly hydrogenated rape oil. T. P. Hilditch and H. Paul, **1929**, 839.
- of Japan wax. M. Tsujimoto, **1935**, 632.
- of Japanese beeswax. H. Ikuta, **1933**, 635.
- of Japanese chrysalis oil; Composition of the saturated —. S. Ueno and H. Ikuta, **1934**, 745.
- of Japanese great herring oil; Composition of the saturated —. S. Ueno and H. Ikuta, **1930**, 409.
- of lard and some of their esters; Nutritive value of —. S. Lepovsky, R. A. Ouer and H. M. Evans, **1935**, 262.
- of linseed oil; Film characteristics of the esters of the component —. B. H. Thurman and W. R. Crandall, **1929**, 186.
- of linseed oil; Fractional extraction of liquid —. G. Agde, **1926**, 364.
- of liver lecithin. R. H. Snider and W. R. Bloor, **1933**, 171.
- of locust-kernel oil. Insoluble —. **1928**, 415.
- of maize starch; Removal of combined —. T. C. Taylor and J. H. Werntz, **1927**, 480.
- of nutmeg (mace) butter and of expressed oil of laurel. G. Collin and T. P. Hilditch, **1930**, 335.
- of palm oil; Composition of the —. A. Rayner and S. G. Campbell, **1928**, 386.
- of shark-liver oil. M. Tsujimoto, **1926**, 49.
- of seed oils of *Brassica* species. Composition of rape, ravison and mustard seed oils. T. P. Hilditch, T. Riley and N. L. Vidyarthi, **1928**, 108.
- of solid seed fats. I. T. P. Hilditch and S. A. Saletore, **1932**, 113; II. Composition of some Malayan vegetable fats. T. P. Hilditch and W. J. Stainsby, **1934**, 632.
- of some New Zealand butters; Component glycerides and the —. T. P. Hilditch and E. E. Jones, **1929**, 75. Erratum, **1929**, 152.
- of some palm oils of high free acidity. T. P. Hilditch and E. E. Jones, **1931**, 463.
- of soya-bean oil; Constituents of the —. K. Hashi, **1928**, 343.
- of the body fats of the pig. I. Influence of ingested fat on the component —. R. Bhattacharya and T. P. Hilditch, **1932**, 256; II. Some aspects of the formation of animal depot fats suggested by the composition of their glycerides and —. A. Banks and T. P. Hilditch, **1932**, 531.
- of the milk-fat of Indian camels. D. R. Dhingra, **1934**, 554.
- present as glycerides in elasmobranch oils; Composition of —. T. P. Hilditch and A. Houlbrooke, **1928**, 246.
- present in the glycerides of cod-liver and certain other fish-liver oil; Composition of the mixed —. K. D. Guha, T. P. Hilditch and J. A. Lovern, **1930**, 456.
- Separation of —. A. H. Lewis, **1927**, 245.

Fatty Acids—continued.

- solid and liquid —; Comparative investigation of different methods for separating. K. Amberger and E. W. Hill, **1928**, 236.
- solid-; Detection of hardened fat in beef fat from the iodine value of the — separated by Twitchell's method. S. C. L. Gerritzen and M. Kauffman, **1928**, 44.
- solid-; Determination of — in the original sample by the lead salt and alcohol method. W. F. Baughman and G. S. Jamieson, **1930**, 714.
- solid saturated —; Rapid determination of. T. P. Hilditch and J. Priestman, **1931**, 354.
- solid unsaturated —; New method for determining. L. V. Cocks, B. C. Christian and G. Harding, **1931**, 368.
- Spectrographic data of natural fats and their — in relation to vitamin A. A. E. Gillam, I. M. Heilbron, T. P. Hilditch and R. A. Morton, **1931**, 471.
- Stability of carotene in ethyl esters of —. F. G. McDonald, **1934**, 120.
- Substitution of glycerides by the corresponding — in a balanced ration. R. Lecoq, **1935**, 562.
- Titre of —. **1927**, 453.
- unsaponified oil in —; Determination of. E. Lester Smith, **1931**, 9.
- unsaturated-; Application of the hydrogen value to —. H. J. Waterman, S. H. Bertram and H. A. Van Westen, **1929**, 252.
- Unsaturated — associated with corn (maize) starch. T. C. Taylor and L. Lehrman, **1926**, 464.
- Unsaturated — in diet. II. H. M. Evans and S. Lepkovsky, **1932**, 470.
- unsaturated-; Partial halogen addition to —. β -Elaeostearic acid glyceride and wood oil. H. P. Kaufmann and C. Lutenberg, **1929**, 304.
- volatile-; Formation of — on exposure of rye and wheat oils to the atmosphere. S. C. L. Gerritzen and M. Kauffman, **1933**, 99.
- X-ray investigation of the polymorphism of —. G. M. de Boer, **1927**, 368.
- Fatty Foods. See Foods.**
- Fatty Oil** from pumpkin seed. Constitution of linolic acid. J. L. Riebsomer and G. A. Nesty, **1934**, 830.
- from quince seeds. A. Steger and J. Van Loon, **1934**, 185.
- from seeds of *Cassia occidentalis* Linn. (wild coffee). A. Steger and J. Van Loon, **1934**, 185.
- Isomerisation of — by the Poutet reagent, **1934**, 313.
- of *Parinarium macrophyllum* (neou oil). A. Steger and J. Van Loon, **1934**, 288.
- of sweet clover seed. B. A. Dunbar and C. F. Wells, **1927**, 47.
- of the bull frog. S. Tasaki and J. Yamamoto, **1930**, 645.
- of the "pilgrim" whale. Biological relations between the cholesterol and squalene. E. André and H. Canal, **1929**, 605.
- Fatty Oils:** Acetyl value of unsaturated —. S. Ueno and N. Kuzei, **1930**, 646.

Fatty Oils—continued.

Anti-oxygens of —. Action of *p*-nitraniline. M. Nakamura, **1934**, 363.

Fatty Oils: Cold test for —. R. R. Matthews, **1929**, 433.

Constants of —; Relation between the. (Review), J. Lund, **1927**, 438.

effect of "blowing" on the composition of certain —. C. H. Thomson, **1926**, 177.

Grouping of —, with special reference to olive oil. E. R. Bolton and K. A. Williams, **1930**, 5.

in green cells; Rapid detection of —. K. B. Blackburn and M. Thomas, **1928**, 300.

Laboratory bleaching technique for —. J. T. R. Andrews and R. G. Folzenlogen, **1931**, 476.

Regularities in the glyceride structure of some technically important vegetable —. T. P. Hilditch and E. C. Jones, **1934**, 194.

Specific gravity of — shipped in bulk. E. R. Bolton and K. A. Williams, **1935**, 154.

Faught Test for acetone. H. J. Schaeffer, **1927**, 169.

Fearon's Colour Reaction: Nature of — and its non-specificity for vitamin A. O. Rosenheim and T. A. Webster, **1927**, 242.

Feathers: Cholesterol content of hair, wool and —. H. C. Eckstein, **1927**, 422.

Knight test for —. H. F. Knight, **1928**, 278.

Feder Number: **1932**, 19.

Federated Malay States: Report of the Chief Chemist (R. W. Blair) for the year 1924, **1926**, 144; for 1925, **1927**, 158; for 1926, **1927**, 593; for 1927, **1929**, 290; for 1928, **1930**, 580; for 1930, **1932**, 40; for 1931, **1933**, 160; for 1932, **1934**, 179.

Water Supplies of —. R. W. Blair, **1933**, 574.

Feeding conditions as cause of variations in component fatty acids of butter. T. P. Hilditch and J. J. Sleightholme, **1930**, 702.

experiments; Determination of cystine by means of —. H. C. Sherman and E. Woods, **1926**, 154.

experiments with activated ergosterol. C. E. Bills and A. M. Wirick, **1930**, 342.

experiments with corn cockle. A. Smetham, **1927**, 273.

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Feeding Stuffs: albuminoid content of —; Effect of grinding in a power mill on. F. R. Dodd and C. R. Loudon, **1935**, 299.

castor beans in —; Detection of. M. Wagenaar, **1929**, 560.

Castor seed in —. **1935**, 404; F. R. Dodd, **1932**, 488.

Copper content of —. C. A. Elvehjem and E. B. Hart, **1929**, 421.

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Iron and manganese content of —. J. T. Skinner and W. H. Peterson, **1928**, 670.

Standardisation of the method of presenting results of the analysis of —. **1931**, 316.

starch in —; Determination of. G. S. Fraps, **1932**, 526.

Fehling's Solution; Acidimetric method for determining glucose by means of —. M. D. Hadjief, **1928**, 604.

Solution; Determination of reducing sugars by means of —. H. L. Hind, **1926**, 352.

Standard alkaline copper solution. M. G. Pegurier, **1926**, 91.

titration for invert sugar; New reagent for eliminating the interference due to calcium in the volumetric —. J. G. N. Gaskin, **1935**, 318.

Felspar: alkalis in —; Determination of. E. W. Koenig, **1935**, 843.

Fences: Corrosion of rabbit-proof —. **1935**, 41.

Fennel Fruits: Volatile oil in —. **1934**, 617.

Fennel Oil as anti-ferment. **1928**, 612.

Microchemical distinction of —. **1929**, 363.

Fergusonite: **1935**, 284.

Fermentation: Alcoholic. —. 4th Ed. (Review), A. Harden, **1932**, 546.

alcoholic —; Action of certain organic substances on. E. Mameli, **1927**, 99.

at low temperatures; Studies of commercial sauerkraut, with special reference to changes in the bacterial flora during —. L. A. Priem, W. H. Peterson and E. B. Fred, **1927**, 356.

Buffers for lactic —. D. W. Steuart, **1934**, 402.

by yeast preparations. A. Harden and M. G. Macfarlane, **1930**, 455.

Eijkman — test as an aid in detecting faecal organisms in water. L. W. Leiter, **1929**, 484.

gas; Solid carbon dioxide (and liquefied —). A. J. C. Cosbie, **1932**, 736.

in Canadian honey. **1932**, 36.

in dough; Effect of certain salts on —. R. H. Callow, **1934**, 156.

liquors; Quantitative determination of acetone and ethyl, butyl and isopropyl alcohols in —. G. L. Stahly, O. L. Osburn and C. H. Werkman, **1934**, 319.

of dried tobacco; Researches on —. I. Methods for separating nicotine and ammonia. A. Fodor and A. Reifenberg, **1926**, 98.

of glucose and fructose by brewers' yeast; Selective —. R. H. Hopkins, **1928**, 668.

of mineral waters; Viscous —. R. Guyot, **1928**, 170.

Problem of —: The Facts and Hypotheses. (Review), M. Schoen, **1929**, 440.

Selective —. I, Alcoholic — of glucose, fructose and mannose mixtures. H. Sobotka and M. Reiner, **1930**, 712.

Selective —. Alcoholic — of mixtures of glucose and fructose by brewers' and Sauterne yeasts. R. M. Hopkins, **1931**, 463.

II, — of sugar mixtures by Sauterne yeast. H. Sobotka and M. Reiner, **1931**, 267.

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- Selective — for analysis of starch sugar, degradation products. T. McLachlan, **1928**, 583.
- vinegar; Detection of tannin in —. G. Reif, **1926**, 41.
- vinegar; Differentiation from artificial vinegar. C. Bertin, **1932**, 722.
- with specific micro-organisms; Effect of — on the vitamin C content of orange and tomato juice. S. Lepkovsky and E. B. Hart, **1926**, 155.
- Fermented liquids**; Determination of succinic acid in —. L. Semichon and Flanzly, **1932**, 721.
- Fermenting mixtures**; Determination of carbon dioxide in —. A. L. Raymond and H. M. Winegarden, **1927**, 557.
- Ferments**: Definition of soluble —. **1928**, 41.
- Ferric Chloride** as indicator in the titration of potassium ferrocyanide with zinc sulphate. P. F. Felkers, **1930**, 407.
- as means for the colorimetric determination of fluoride in water. M. D. Foster, **1933**, 712.
- free hydrochloric acid in presence of aluminium chloride and —; Determination of. K. Kuchler, **1930**, 597.
- Ferric Iron**: Colorimetric determination of — by means of pyramidon. H. W. van Urk, **1926**, 594.
- Colorimetric determination of — with 7-iodo-8-hydroxyquinoline-5-sulphonic acid. J. H. Yoe, **1933**, 54.
- Determination of -SOOH (sulphinic) group and of —. S. Krishna and H. Singh, **1928**, 303.
- Iodimetric determination of —. E. Rupp, **1932**, 59.
- Separation of thallium from —. **1930**, 409.
- Ferric Salicylate** test for salicylic acid. **1928**, 20.
- Ferric Salts**: copper in presence of —; Determination of. **1930**, 380.
- hydroxy organic acids in presence of —; Titration of. C. V. Smythe, **1931**, 613.
- Ferric Thiocyanate**: Structure of —. H. I. Schlesinger and H. V. Van Valkenburgh, **1931**, 416.
- Ferrocyanide** in presence of ferrocyanide; Detection of —. I. M. Korenman, **1935**, 639.
- method for blood sugar; Note on the new —. O. Folin, **1929**, 246.
- method for determining reducing sugars. Modification of the Hagedorn-Jensen-Hanes technique. A. C. Hulme and R. Narain, **1931**, 815.
- method of determining iron colorimetrically. W. R. Mummery, **1926**, 511.
- reagent; Improved — for the detection of oxycellulose. W. F. A. Ermen, **1935**, 426.
- reagent used in the gasometric sugar method; Reducing powers of different sugars for the —. J. A. Hawkins, **1929**, 749.
- Titration of — in the determination of reducing sugars. S. W. Cole, **1933**, 616.
- Ferro-Chrome**: chromium in —; Electro-metric titration of. F. Spindeck, **1931**, 64.
- Ferric Silicon**: Analysis of —. G. H. Goodwin, **1931**, 21.
- Ferrocyanide**: Chloramine in the determination of —, **1934**, 436.
- Determination of —. P. P. Budnikoff, **1928**, 459.
- Determination of —. Colour indicators for permanganate titrations. J. Knop, **1929**, 437.
- Electrometric determination of zinc by —. G. G. Reisus, **1927**, 106.
- ferricyanide in presence of —; Detection of —. I. M. Korenman, **1935**, 639.
- method of determining copper in foodstuffs, **1926**, 328.
- titration of zinc; An overlooked source of error in —. B. Park, **1932**, 196.
- Ferrocyanide Ion**: Potentiometric study of the reaction between ceric ion and —. N. H. Furman and O. M. Evans, **1929**, 371.
- Ferrocyanides**: Oxidation of —. **1929**, 462.
- Titration of — with silver nitrate, using fluorescein. **1930**, 614.
- Ferrosilicons**: Production of toxic gases from — in presence of water. H. Delomenie, **1933**, 774.
- Ferrotungsten**: Tin in —; Rapid determination of. K. Kiefer, **1932**, 538.
- Ferrous Ferrocyanide** as indicator for argentometry. **1935**, 428.
- Ferrous Ion**: Indicators for the reaction between ceric ion and —. N. H. Furman and J. H. Wallace, Junr., **1930**, 527.
- Ferrous Iron** in silicates; Determination of —. L. A. Sarver, **1927**, 496.
- Sensitive test for —. **1935**, 177.
- Ferrous Salts**: copper in presence of —; Determination of. **1930**, 379.
- Ferrous Sulphate** and potassium dichromate as means for the volumetric determination of cobalt. L. A. Sarver, **1933**, 639.
- as reducing agent in the volumetric determination of nitrates. I. M. Kolthoff, E. B. Sandell and B. Moskovitz, **1933**, 369.
- destruction of vitamin A by —; Separation from oils of a substance which inhibits the. H. W. Estill and E. V. McCollum, **1927**, 720.
- Dried —. J. F. Liverseege, **1927**, 239.
- method of separating gold from tellurium. **1934**, 199.
- solutions; Electrometric analysis of —. N. A. Shishacow, **1935**, 83.
- Ferrous Tartrate** reagent; Use of Mitchell's — in studying the precipitation of alkaloids by tannin. A. E. Jones, **1928**, 429.
- Ferrovandium**: vanadium in —; Iodimetric determination of. K. Roesch and W. Werz, **1928**, 354; W. Werz, **1930**, 769.
- vanadium in —; Revision of the new iodimetric determination of. W. Werz, **1931**, 339.
- Ferruginous soils**; Mechanical analysis of —. R. C. Groves, **1928**, 350.
- Fertilisers** and Soil Improvers. (Review), W. Gardiner, **1928**, 309.
- Application of Ridsdale's modification of Pemberton's method for volumetric determination of phosphoric anhydride to —. A. M. Cameron and W. T. Dow, **1927**, 576.
- Artificial —. (Review), P. Parrish and A. Ogilvie, **1927**, 436.

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- Compound —, 1935, 403.
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 Phosphoric ion in — rapidly determined by ceruleo-molybdimetry. G. Denigès, 1928, 351.
 Unit values of constituents of —, 1935, 101.
 Use of *Aspergillus niger* in testing potash availability in —, L. D. Haigh, 1935, 630.
 Vol. II of Wiley's "Principles and Practice of Agricultural Analysis." (Review), 1933, 57.
- Fertilisers and Feeding Stuffs Act, 1926.** Procedure under Section 13(3). 1929, 344. (Review), H. J. Johns, 1929, 196.
 Revision of Regulations. Statutory Rules and Orders, 1932, No. 658. 1932, 655.
 Statutory Rules and Orders, 1931. No. 171. Merchandise Marks (Imported Goods), No. 7 Order, 1931. 1931, 460.
- Féry spectroscopy** for the qualitative analysis of metals. 1929, 546.
- Fibre:** Composition of crude —, A. G. Norman, 1935, 837.
 medullated — in New Zealand Romney fleeces; Detection and estimation of. B. L. Elphick, 1933, 109.
- Fibres:** Animal —; Methods for studying the scale structure of. J. I. Hardy, 1932, 200.
 animal-; Protection of — against clothes moths and dermestid beetles. C. O. Clarke, 1929, 126.
 cellulose —; Method for determining the degree of purity of. M. Freiburger, 1930, 462.
 Differentiation between animal and vegetable — by means of the azide and iodine reaction. 1935, 56.
 kemp-; Examination of —, H. Bliss, J. Duerden, J. F. Roberts, J. Blyth, H. Hirst and A. T. King, 1926, 475.
 leather —; Interpretation of photomicrographs of. D. J. Lloyd and R. H. Marriott, 1932, 276.
 Textile —; Dyeing of. (Review), R. S. Horsfall and L. G. Lawrie, 1927, 664.
 textile —; X-ray examination and structure of. G. R. Levi, 1927, 615.
 wool-; Photomicrography of —, J. Manley, 1930, 469.
- Fibroin:** Stains to distinguish silk gum and —, W. S. Denham and E. Dickinson, 1935, 335.
- Fiehe Test** for detecting artificial invert sugar in honey; Modification of —, E. K. Nelson, 1929, 603.
- Figs:** Boron compounds in Turkish —, 1929, 16.
 Syrup of —, (Legal Notes), 1931, 106.
- Fiji:** Report of the Government Chemist for the year 1930. W. J. Blackie, 1932, 251; for 1931, 1932, 251; for 1932, 1934, 177.

Filbert Nut Oil: H. A. Schuette and C. Y. Chang, 1933, 620.

Films: Deterioration of cinematograph —, 1931, 811.

responsible for oxidation tints on metals. T. R. Evans, 1927, 662.

Solubility of Reinsch antimony — in water. S. G. Clarke, 1929, 99.

Filter for micro-gravimetric analyses. P. L. Kirk and R. Craig, 1932, 127.

Glas- und Keramische —, (Review), P. H. Prausnitz, 1933, 250.

papers; New development in —, E. J. Guild, 1931, 652.

stick; New form of —, Its use in gravimetric analysis. E. J. King, 1933, 325.

Filtering medium; Diatomaceous earth as —, 1934, 347.

Filters made of porous hard rubber. E. Vossen, 1931, 558.

Nickel salts as light —, W. V. Bhagwat, 1934, 371.

Use of Jena glass — in the micro-determination of sulphur as benzidine sulphate, and urea as dixanthyl ureate. R. Guillemet, 1933, 248.

Filtration: Adaptor collars for use in —, B. S. Evans, 1935, 242.

enzymes; Determination of the pectolytic power of —, A. Mehltz and H. Maass, 1935, 834.

Funnel-fitting for rapid —, H. Tramm, 1933, 373.

in neutral atmospheres; Apparatus for continuous percolation and —, B. S. Evans, 1926, 229.

of saturated solutions in the warm; Apparatus for —, S. H. Bertram and W. A. Van Meurs, 1930, 300.

Substitution of centrifugation for — and calcination in the gravimetric determination of tin and lead in their alloys. M. Foà, 1927, 364.

Filtrationsapparate: Selbsttätige —, J. B. Dubský, 1931, 698.

Finch Electron-Diffraction Camera. 1934, 584.

Finger-Prints: Detection of —, H. L. Brose, 1934, 25.

Firearms cases in Ceylon. 1931, 667.

Examination of —, 1932, 576.

Examination of — in connection with shooting cases. 1930, 579.

Forensic examination of —, 1933, 159.

Scientific evidence relating to —, with special reference to a recent murder trial. G. W. Baker, 1930, 738.

Firedamp: Ignition of —, (Safety in Mines Research Board Report, No. 8). H. F. Coward and R. V. Wheeler, 1926, 302.

inflammability of air and —; Limits of. (Safety in Mines Research Board Report, No. 15). M. J. Burgess and R. V. Wheeler, 1926, 302.

Firefly Oil: 1929, 305.

Fire-proof treatment of wood. I. S. Uchida, S. Ai and J. Nagasawa, 1935, 498.

Fisetin: Fluorescence of —, L. Meunier and A. Bonnet, 1926, 54.

- Fish: Ammoniacal canned** —. 1935, 40.
- Arsenic in —. 1926, 549; Normal occurrence of —. G. Sadolin, 1929, 547.
- Bacteria in —. 1934, 699.
- by-products. Food Investigation Board Report on —. 1929, 35.
- Canned — in Cyprus. 1935, 179.
- canned —; Tin and lead in. H. A. Williams, 1935, 683.
- Carbohydrate metabolism of —. 1932, 165.
- Chemical poisoning of —. 1933, 282.
- Creatine content of the muscles and some other tissues in —. A. Hunter, 1929, 299.
- death of — in polluted waters; Importance of the various factors responsible for. H. S. Pruthi, 1927, 427.
- Deterioration of — on storage. 1933, 611.
- Dried — infested with larvae of the leather beetle. 1933, 758.
- Effect of bacteria on spoilage of —. 1931, 533.
- fat in sardines in oil; Determination of —. G. Lunde and E. Mathiesen, 1934, 47.
- Fat metabolism in —. III, Selective formation of fat-deposits. J. A. Lovern, 1934, 557.
- Flat — liver oils. M. Tsujimoto, 1928, 291. Erratum, 1928, 344.
- flesh; Decomposition of free and combined cystine, with special reference to certain effects produced by heating —. L. H. Almy, 1927, 718.
- Formaldehyde in —. D. B. Dill and P. B. Clark, 1927, 222.
- formaldehyde in —; Examination for. A. R. Tankard and D. J. T. Bagnall, 1926, 565.
- Handling and transport of —. E. Griffiths and C. Heron (Food Investigation Board Report, No. 25), 1926, 350.
- insoluble bromide values of oils in cans of preserved —; Determination of. R. Marcille, 1934, 46.
- livers; Investigation of —. 1933, 227.
- livers; Vitamin A from —. P. Karrer, R. Morf and K. Schöpp, 1931, 824.
- Luminous bacteria of —. 1933, 613.
- meal; Iodine in —. 1930, 390.
- meals; Nutritive value of —. 1929, 35.
- muscle; Effect of exposure to low temperatures on the number of bacteria in —. M. M. Stewart, 1934, 711.
- pastes; Composition of —. H. E. Cox, 1935, 71.
- pastes; Examination of —. 1928, 598.
- pastes; Notes on —. C. H. Manley, 1935, 76.
- pastes; Starch in —. 1926, 571.
- Phosphorus distribution, sugar and haemoglobin in the blood of —. C. M. McCay, 1931, 263.
- poison. 1935, 472.
- Poisonous —. 1929, 544.
- Preservation of —. 1926, 143; 1930, 509.
- preservation of —; Effect of carbon dioxide on bacterial growth, with special reference to. Part I. F. P. Coyne, 1932, 399.
- preserved- —; Analysis of oils in cans containing —. R. Marcille, 1934, 47.
- Fish—continued.**
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- Relative vitamin A value of the body and liver oils of certain —. B. Ahmad and J. C. Drummond, 1930, 403.
- retail names for —; Standardisation of. 1935, 178.
- Sterols extracted from —. 1929, 36, 37.
- Fish Liver Oils:** Analytical classification of —. N. Evers and W. Smith, 1932, 735; 1933, 701.
- Biological significance of the unsaponifiable matter of oils. H. J. Channon, 1928, 293.
- Composition of the mixed fatty acids present in the glycerides of cod-liver and certain other —. K. D. Guha, T. P. Hilditch and J. A. Lovern, 1930, 456.
- of flat fish. M. Tsujimoto, 1928, 291. Erratum, 1928, 344.
- Reaction of — with antimony trichloride. F. Ender, 1932, 789.
- Toxic effect of — and the action of vitamin B. E. R. Norris and A. E. Church, 1931, 125.
- Vitamin A in —. P. N. Chakravorty, H. C. Mookerjee and B. C. Guha, 1933, 771.
- Fish Oils:** Behaviour of — with uranium nitrate and pyrogallol. W. H. Dickhart, 1927, 725.
- Bleaching of —. 1929, 36.
- Chlor-iodo and brom-iodo compounds precipitated from —. S. Ueno and M. Iwai, 1933, 174.
- Colour reactions for identifying hydrogenated —. M. N. Ghose and H. K. Pal, 1935, 240.
- Comparison of biological and colorimetric assays for vitamin A as applied to —. E. R. Norris and I. S. Danielson, 1929, 612.
- Itoyo —. S. Ueno and S. Komori, 1935, 706.
- lauric acid in —; Occurrence of. H. G. Rees, 1933, 222.
- New compounds produced* during the hydrogenation of —. S. Ueno and R. Yamasaki, 1931, 476.
- New fatty acid from —. H. Marcelet, 1928, 499.
- New higher alcohols produced during the hydrogenation of —. S. Ueno and R. Yamasaki, 1931, 414.
- Unsaponifiable matter determined in —. E. R. Bolton and K. A. Williams, 1932, 25.
- Vitamin A from —. II. P. Karrer, R. Morf and K. Schöpp, 1932, 185.
- Fisheries:** Ministry of —. See **Ministry of Agriculture and Fisheries.**
- Flame and Combustion in Gases.** (Review), W. A. Bone and D. T. A. Townend, 1927, 734.
- Flash Points** of blends of lubricating oils; Calculation of —. E. W. Thiele, 1927, 307.
- Flask** for recovering volatile liquids. M. Nierenstein, 1926, 569.
- Flasks:** B.S.I. specification for distillation —. 1935, 42.

- Flavin** on furs; Identification of —. 1935, 796.
- Flavine** in white wines. L. Genevois, 1935, 105.
- Flavines**: Recognition and determination of —. P. J. Udall, 1932, 295.
- Flavour** in grapes and grape juices; Distribution of volatile —. J. W. Sale and J. B. Wilson, 1927, 39.
- Flavouring** constituents of commercial flavours; Identification of —. J. B. Wilson and G. L. Keenan, 1930, 638. essences. 1935, 685.
- Flavourings**: Boron compounds in —. 1929, 18.
- Flax** wax. W. Honneyman, 1926, 535.
- Flaxseed** mucilage; Composition of an aldobionic acid from —. C. Niemann and K. P. Link, 1934, 196.
- Fleeces**: medullated fibre in New Zealand Romney —; Detection and estimation of. B. L. Elphick, 1933, 109.
- Flesh**: Chemical and physico-chemical changes accompanying the beginning of putrefaction of —. J. Tillmans, P. Hirsch and A. Kuhn, 1927, 289. Detection of incipient putrefaction and determination of saline ammonia in —. B. Glassmann and F. Rochwarger, 1930, 281. of emaciated cattle; Chemical study of —. R. Hoagland and W. C. Powick, 1926, 249. products; Detection of hydrogen sulphide and the evaluation of the degree of freshness of —. F. Budagian, 1932, 720. products; Determination of nitrates in —. F. T. Van Voorst, 1933, 230.
- Flies**: Effect of poisons on the larvae of —. K. Feist, 1927, 243. Effectiveness of aliphatic compounds in attracting —. W. C. Cook, 1926, 314.
- Flint** implements in ancient Egypt. 1926, 436, 447, 448. surfaces; Microscopical examination of —. J. R. Moir, 1927, 367. "Flit": (cockroach control); Analysis of —. 1927, 538.
- Flocculation** of troublesome precipitates in analysis. W. Clayton, 1927, 76.
- Flora**: Bacterial —. See **Bacterial** flora.
- Florence's Test** for semen. 1931, 665; for seminal stains, 1931, 718.
- Florescence** in bricks. 1934, 758.
- Florida** grape-fruit peel oil. E. K. Nelson and H. H. Mottorn, 1934, 644.
- Flour**: age of —; Determination of the acid value of flour-fat for judging. N. P. Kosmin and K. A. Alakrinskaja, 1935, 416. age of —; Estimation of. W. Hartmann, 1930, 516. Agricultural Produce (Grading and Marking) (Wheat —) Regulations, 1929, 1930, 45. bacteriology of wheat and —; Preliminary studies in. D. W. Kent-Jones and A. J. Amos, 1930, 248. Erratum, 1930, 358. benzoyl peroxide in —; Determination of. J. R. Nicholls, 1933, 4. Biological value of the nitrogen of mixtures of patent white — and animal foods. H. H. Mitchell and G. G. Carman, 1926, 358.
- Flour**—continued. bleaching of — with chlorine and nitric oxide; Detection of. J. Kulman, 1930, 281. Book lice in —. 1935, 819. bromates in —; Determination of. J. Kulman, 1935, 104. carotin in —; Determination of. C. G. Ferrari and C. H. Bailey, 1929, 604. chlorine in —; Detection of small quantities of. D. W. Kent-Jones and C. W. Herd, 1930, 394. Chlorine in bleached —. A. Seidenberg, 1926, 150; 1928, 342. chlorine in the fat of —; Determination of. V. E. Munsey, 1935, 764. Chlorine treatment of —. (Parliamentary Notes), 1929, 165. colour of —; Numerical expression for the. D. W. Kent-Jones and C. W. Herd, 1927, 443. confectionery; Determination of cocoa-matter in —. D. D. Moir and E. Hinks, 1935, 439. containing acid calcium phosphate. (Legal Notes), 1927, 30. corncockle in —; Detection of. R. Fischer and E. Riedl, 1930, 699. Corncockle in — determined by haemolysis. F. S. Okoloff, 1928, 390. Definition of — under Wheat Act. 1933, 98. Diabetic —. 1930, 686; 1931, 741; (Legal Notes), 1930, 41. Distinction between "Graham" and "Empire White" —. 1926, 87. Dutch regulations for —. 1932, 20. Effects of fine grinding upon —. C. L. Alsberg and E. P. Griffing, 1926, 199. Egg —. (Legal Notes), 1929, 105. ergot in —; Colorimetric determination of. F. S. Okoloff, 1929, 352. Ergot in — determined by a serological method. F. S. Okoloff and I. G. Akimoff, 1929, 353. Evaporation in —. (Legal Notes), 1928, 650. evaporation of moisture from rice and —; Alleged. (Legal Notes), 1928, 534. from denatured wheats; Detection of —. Identification of the colouring matter. J. Meyer, 1934, 492. Gluten —, self-raising. (U.S. Food Inspection Decision No. 199), 1926, 580. gluten —; Standard for. 1933, 286. Grading and Marking Regulations for Malt —. 1930, 328. Improver for —. 1931, 257. improvers in —; Animal experiments on the influence of. J. von Darányi and St. von Vitéz, 1935, 421. in curds. 1934, 819. Iodine method for starch in —. 1934, 677. Kjeldahl method for analysis of —. Comparison of selenium, copper and mercury catalysts. R. A. Osborn and A. Krasnitz, 1933, 289. Malt —. Ministry of Agriculture and Fisheries Statutory Rules and Orders, 1929, No. 540. 1933, 540.

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- manganese in —; Colorimetric determination of. P. Bruère, **1934**, 492.
- methylene blue in —; Detection of. P. Nottin, **1934**, 630.
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- mustard —; Determination of essential oil of mustard in. L. Colombier, **1926**, 308; Astrue and Mousseron, **1927**, 353.
- Oils and lipins in —. **1933**, 229.
- paprika adulterated with —; Determination of starch in. D. Kőszegi and N. Tomori, **1934**, 494.
- Pea —. D. Kaltschewa, **1933**, 162.
- Phosphatids of wheat —. F. E. Nottbohm and F. Mayer, **1934**, 417.
- Plantain (banana) —. E. A. Ullán, **1926**, 634.
- Rancidity in —. J. Berlie, **1934**, 629; **1935**, 181.
- Revised and amended definitions and standards for wheat —. (U.S. Dept. of Agriculture), **1930**, 637.
- rice — in other flours and in spices; Detection and determination of. M. Wagenaar, **1928**, 100.
- Rice — in shredded suet. (Legal Notes), **1927**, 281.
- “Rope” spore content of — and its significance. A. J. Amos and D. W. Kent-Jones, **1931**, 572.
- Rye — and wheat — in mixtures detected by the trifructosan-content. H. Werner and H. Volger, **1935**, 702.
- Rye — in wheat —, and barley — in rye and wheat —. P. Rudolph and H. Barsch, **1932**, 177.
- Rye — in wheat and other —; Detection of. J. Tillmans, **1929**, 43.
- saccharogenic power of —; Polarimetric method for determining. H. C. Gore, **1933**, 761.
- self-raising —; Determination of “available” and “total” carbon dioxide in. F. W. Edwards, E. B. Parkes and H. R. Nanji, **1935**, 814.
- self-raising —; Rapid sorting test for small quantities of tartaric acid in. A. F. Lerrigo, **1926**, 180.
- Soya bean —. D. Kaltschewa, **1933**, 162.
- Starch in — determined by diastase and acid hydrolysis. B. G. Hartmann and F. Hillig, **1931**, 322.
- Steamed bone —. **1933**, 225.
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- U.S. Food Inspection Decision No. 204. **1927**, 348.
- unsaponifiable matter in wheat —, alimentary pastes and eggs; Determination of. R. Hertwig and L. H. Bailey, **1926**, 306.
- washing of gluten from —; Some observations on the. D. W. Kent-Jones and C. W. Herd, **1927**, 439.
- Wheat —. Grading and Marking Regulations for. **1930**, 45.

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- Wheat —. Ministry of Agriculture and Fisheries Statutory Rules and Orders, **1933**, No. 592. **1933**, 478.
- Wheat-; The Chemistry of —. (Review), C. H. Bailey, **1926**, 114.
- Wheat-rye — and bread. P. Nottin and A. Daron, **1935**, 621.
- Flour Beetle**: Vitamin requirements of the — (*Tribolium confusum* Duval). M. D. Sweetman and L. S. Palmer, **1928**, 348.
- Flour-Fat**: Chlorine determined in —. V. E. Munsey, **1935**, 764.
- Determination of the acid value of — for judging the age of flour. N. P. Kosmin and K. A. Alakrinskaja, **1935**, 416.
- Flours**: Colour reactions of —. A. Piedallu, **1927**, 38.
- Differentiation of — by the iodine absorption and the rapidity of sedimentation. N. A. Trofimuk, **1927**, 89.
- rice flour in other —; Detection and determination of. M. Wagenaar, **1928**, 100.
- Flowers of Sulphur**: (Legal Notes), **1926**, 239.
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- Flowmeter**: Use of methyl salicylate in a —. R. H. K. Foster, **1926**, 216.
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- Fluorescein** as adsorption indicator. **1933**, 332.
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- Fluorescence** acidimetric and adsorption indicators; Some examples of —. H. R. Fleck, R. F. G. Holness and A. M. Ward, **1935**, 32.
- Analysis in Ultra-Violet Light. (Review), J. A. Radley and J. Grant, **1934**, 209.
- analysis of waxes. J. A. Radley, **1932**, 626.
- in relation to sewage. J. A. Radley, **1932**, 28.
- indicators; New —. K. A. Jensen, **1933**, 722.
- Method of identification and determination of the value of rhubarbs, based on —. Maheu, **1929**, 478.
- methods in micro-analysis. Collected references. M. Haitinger, **1935**, 201.
- microscopy and — photomicrography. P. Metzner, **1932**, 130.
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- of acetone extracts of tanning materials. L. Meunier and A. Jamet, **1926**, 481.
- of colouring matters in ultra-violet light. A. Seyewetz and J. Blanc, **1929**, 309.
- of fats; Absorption spectra and —. H. P. Kaufmann, **1929**, 309.
- of fisetin. L. Meunier and A. Bonnet, **1926**, 54.
- of Italian olive oils in ultra-violet light. R. Stratta and A. Mangini, **1928**, 387.
- of mechanically expressed butters. **1930**, 745.
- of milk and butter in ultra-violet light. G. W. Baker and S. Taubes, **1932**, 375.

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- of milk and dairy products. J. A. Radley, **1933**, 527.
- of olive oil; Spectrographic analysis of — under ultra-violet radiation. H. Marcelet and H. Debono, **1930**, 600.
- of olive oil under ultra-violet light. A. L. Glanz, **1930**, 773.
- of olive oils. Influence of pigments. J. Guillot, **1935**, 432.
- of some vitamin A-containing fats. R. S. Morgan and K. MacLennan, **1929**, 250.
- of the uranyl ion; Inhibiting action of certain ions on — and its applications to inorganic chemical analysis. Volmar and Mathis, **1933**, 570.
- Rapid Testing by —. British Hanovia Quartz Lamp Co., Ltd. **1934**, 310.
- reaction of malic acid. S. A. Celsi, **1926**, 592.
- reaction of β -naphthol. N. Schoorl, **1931**, 332.
- test for detecting rhapontic rhubarb. T. E. Wallis and E. R. Withell, **1934**, 652; **1935**, 126.
- test for olive oils. T. T. Cocking and S. K. Crews, **1934**, 652; **1935**, 125.
- Ultra-violet — as a test for citrus oils. Determination of substances producing the —. H. Nicol, **1935**, 433.

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- indicators as means of determining the acidity of red wines. Y. Volmar and S. M. Clavera, **1931**, 540.
- minerals; Photography of —. W. M. Thornton and M. N. Lewis, **1935**, 784.

Fluorescein Chloride; Spot test for aliphatic and aromatic amines with —. **1935**, 342.**Fluoreszenz; Nachweis der Biologisch Wichtigen Körper durch —.** (Review), C. Dhéré, **1934**, 375.**Fluoride; Apparatus for detecting traces of — by the etching method.** R. E. Essery, **1931**, 28.

- Calcium fluoride method for determining —. S. G. Clarke and W. N. Bradshaw, **1932**, 138.

Colorimetric determination of — by means of a photonic colorimeter. L. V. Wilcox, **1934**, 503.

- in water; Colorimetric determination of — by means of ferric chloride. M. D. Foster, **1933**, 712.

silicon and aluminium in presence of orthophosphate and —; Determination of. T. Millner and F. Kunos, **1933**, 54.

- solution; Volumetric determination of beryllium and silicon in complex —. J. A. Tschernichow and E. J. Guldina, **1935**, 638.

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- boric acid in presence of —; Test for. **1934**, 720.

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- Effect of iodides and — on the clotting of milk by pepsin. W. M. Clifford, **1928**, 663.

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- in natural waters; Determination of —. J. M. Sanchis, **1934**, 437.
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- in water; Clinical significance of traces of —. N. J. Ainsworth, **1934**, 580.
- in water; Determination of small quantities of —. G. Barr and A. L. Thorogood, **1934**, 378.
- Removal of — from drinking water. R. H. McKee and W. S. Johnston, **1934**, 786.
- soluble —; Determination of. F. L. Hahn, **1927**, 106.
- Spectro-photometric study of fluoro-methaemoglobin for determining —. R. Fabre and S. Bazille, **1934**, 125.

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- beryllium in presence of —; Volumetric determination of. V. M. Zwenigorodskaja and A. A. Gaigerowa, **1934**, 645.

Colorimetric determination of —. W. D. Armstrong, **1933**, 716.Colorimetric determination of traces of —. L. Szegoe and B. Cassoni, **1934**, 200.compounds; Analysis of insecticides containing —. L. Hart, **1929**, 621.compounds; Comparative toxicity of —. M. C. Smith and R. M. Leverton, **1934**, 710.Determination of —. F. G. Hawley, **1926**, 426; P. Mougard, **1931**, 688.Determination of — by precipitation as triphenyl tin fluoride. N. Allen and N. H. Furman, **1933**, 113.Determination of small quantities of — by the Steiger-Merwin reaction. H. J. Wichmann and D. Dahle, **1934**, 132.in basic slag; Determination of —. R. G. Warren, C. T. Gimmingham and H. J. Page, **1926**, 101.in biological materials; Titration of —. E. W. Scott and A. L. Henne, **1935**, 831.in blende; Determination of —. L. Fresenius, K. Schröder and M. Frommes, **1928**, 304.in fluorspar; Volumetric determination of —. I. Tananaeff, **1934**, 847.in impregnated wood; Determination of —. **1932**, 737.in organic compounds; Determination of —. D. J. Pflaum and H. H. Wenzke, **1932**, 793; W. Bockemüller, **1933**, 107.in organic compounds determined by the sodammonium method. F. Govaert, **1933**, 107.in organic substances; Micro-determination of —. D. M. Hubbard and A. L. Henne, **1934**, 777.in phosphate rock and phosphate slag; Determination of —. D. S. Reynolds and K. D. Jacob, **1931**, 835.in phosphorites determined by a simplified method. S. N. Rosanów, **1935**, 781.in presence of silica and aluminium; Determination of —. T. Millner and F. Kunos, **1933**, 422.

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- in rocks; Detection of traces of —. I. P. Alimarin, **1930**, 652.
- in sulphuric acid and oleum; Determination of —. H. Spielhaczek, **1935**, 273.
- in water; Spectroscopic determination of —. A. W. Petrey, **1934**, 781.
- ingestion; Influence of — upon the nutritional qualities of milk. P. H. Phillips, E. B. Hart and G. Bohstedt, **1934**, 497.
- Spot test for —. F. Feigl and E. Rajmann, **1934**, 304.
- Study of Travers's method for determining — with reference to insecticides. C. M. Smith, E. H. Hamilton and J. J. C. Graham, **1931**, 551.
- Tests for small amounts of —. S. Kühnel Hagen, **1935**, 125.
- Volumetric determination of —. H. H. Willard and O. B. Winter, **1933**, 242.
- Volumetric determination of — by means of cerous nitrate. G. Batchelder and V. W. Meloche, **1931**, 555.

Fluoro-Methaemoglobin: Spectro-photometric study of — for detecting methaemoglobin and for determining fluorides. R. Fabre and S. Bazille, **1934**, 125.

Fluorspar: fluorine in —; Volumetric determination of. I. Tananaeff, **1934**, 847.

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Folin-Wu blood sugar values; Correction of —. B. L. Oser and W. G. Karr, **1926**, 258.

method for sugar in blood and cerebro-spinal fluid. Comparison of the new Benedict and —. J. D. Lyttle and J. E. Hearn, **1926**, 466.

method of blood analysis; Colorimetric determination of cholesterol and lecithin in blood in connection with —. G. M. De Toni, **1926**, 639.

Food: Adulterated — in restaurants. (Legal Notes), **1926**, 630.

adulteration; A new problem in —. **1933**, 757.

Adulteration and Analysis; History of —. F. A. Filby (Review), **1935**, 281.

Aluminium in —. G. W. Monier-Williams, **1935**, 822.

aluminium in —; Determination of small amounts of. L. H. Lampitt and N. D. Sylvester, **1932**, 418.

Food—continued.

aluminium in —; Spectrographic determination of. P. Bilham, **1932**, 426.

and Health. Introduction to the Study of Diet. (Review), A. B. Callow, **1928**, 682.

bacteriological examination of water and —; Recent advances in. W. G. Savage, **1927**, 117.

boron compounds in drugs and —; Study of the methods of determining. A. S. Dodd, **1929**, 645.

Part 2. Experimental: Effect of fats and other organic substances on the determination. **1929**, 715.

Part 3. Conditions required for quantitative titration. **1930**, 23.

Chemist; Tables for the use of —. (Review), W. Plücker, **1931**, 344.

Chemistry and Technology; Colloid Aspects of —. (Review), W. Clayton, **1932**, 133.

Chemistry; Handbook of —. Bömer, Juckenack and Tillmans. Vol. I. (Review), **1933**, 503.

Vol. II, **1934**, 440; **1935**, 786; Vol. VI, **1935**, 345.

coal-tar colours in —; Certification of. The permitted dyes. (U.S. Dept of Agriculture Regulation.) **1929**, 345.

Cod-liver oil as —. Observations on the existence of vitamin E. V. E. Nelson, R. L. Jones, G. Adams and L. T. Anderegg, **1927**, 604.

colouring materials; Arsenic, lead, etc., in —. **1927**, 503.

Colouring Materials; First Report of Sub-Committee on determination of Arsenic, Lead and other Poisonous Metals in —. **1930**, 102; Second Report, **1935**, 541.

Colouring Matters Sub-Committee Notice. **1927**, 503, 529.

colouring matters used in —; Impurities in. Sub-Committee's Report. **1928**, 217.

Colours in —. U.S.A. Food Inspection Decision No. 209. **1927**, 547.

Composition and Description of —. Report of the Departmental Committee on. **1934**, 407.

control in Holland. A. van Raalte and J. Straub, **1932**, 15.

copper in beverages, — etc.; Determination of minute amounts of. F. W. Richardson, **1930**, 323.

dietetic; Yogurt as a medicine and —. T. Stathopoulos, **1926**, 414.

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Glass particles in —. **1928**, 591; **1931**, 658.

heavy metals in —; Bibliography on. T. H. Pope. I, Copper, **1932**, 709; II, Lead, **1932**, 775; III, Zinc, **1933**, 30; IV, Manganese, **1933**, 91; V, Mercury, **1933**, 280; VI, Cobalt, **1933**, 340; VII, Nickel, **1933**, 340; VIII, Chromium, **1933**, 341; IX, Tin, **1933**, 398; X, Bismuth, **1933**, 607; XI, Antimony, **1934**, 109; XII, Cadmium, **1934**, 109; XIII, Thallium, **1934**, 109.

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industries; Evaluation of rubber hosing, containing antimony penta-sulphide, for use in —. II. B. Bleyer and E. Spiegelberg, **1933**, 353.

Infections and — Intoxications. (Review), S. R. Damon, **1928**, 405.

Inspection Decisions of U.S. Dept. of Agriculture. See **United States**.

investigation; Index to literature of —. No. 1. A. E. Glennie, **1929**, 566.

Law; Departmental Committee on —. **1933**, 551.

Laws and Regulations; Summary of —. (Review), C. L. Hinton, **1934**, 725.

lead in beverages, —, etc.; Determination of minute amounts of. F. W. Richardson, **1930**, 323.

materials; New method of determining the acid-base balance in —. J. Davidson and J. A. Le Clerc, **1935**, 262.

Microchemical tests for benzoic acid, salicylic acid and esters of *p*-hydroxybenzoic acid in —. R. Fischer and F. Stauder, **1931**, 275.

of hogs; Effect of fat in — upon individual fatty acids in the body fat. N. R. Ellis and H. S. Isbell, **1926**, 524.

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Preservatives in —. Public Health Amendment Regulations, 1926, No. 1557. **1927**, 33; Public Health Regulations. Draft Rules and Orders, **1926**, 578. Public Health Provisional Regulations, 1927, **1927**, 285. Circular No. 782, **1927**, 286; Circular No. 852, **1928**, 42.

Preservatives in —. Suggested revision of Regulations. **1933**, 401.

Preservatives Regulations; Postponement of —. (Ministry of Health Notice), **1926**, 351.

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products; Revised and Amended Definitions and Standards for —. (U.S. Dept. of Agriculture). **1930**, 637; **1932**, 656.

products; Separation of formic acid in — by distillation with xylene. J. K. Morton and G. C. Spencer, **1926**, 415.

Products. Their Source, Chemistry and Use. E. H. and H. S. Bailey, **1929**, 130.

Saccharin in —. **1932**, 99.

standards for Burma; Recommendations for —. E. H. Bunce, **1933**, 759.

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tests. I, Distinction between malt coffee and grain coffee by maltol reaction. II, Blood sausage with artificially coloured skin. T. Merl, **1927**, 93.

Vitamins in heat-sterilised —. C. M. Dugdale and R. J. Munro, **1926**, 359.

Food and Drugs Act, 1928, of Burma: Investigations on milk standards under the —. E. H. Bunce, **1932**, 449.

(Adulteration) Bill. **1928**, 386.

Sale of — Acts. See **Sale of Food and Drugs Acts**.

Food, Drugs and Disinfectants Act of the Union of South Africa. **1929**, 600.

Food Investigation Board Reports: Annual Report for the year 1924, **1926**, 142; for 1925 and 1926, **1927**, 541; for 1927, **1928**, 222; for 1928, **1929**, 35; for 1929, **1930**, 507; for 1930, **1931**, 531; for 1931, **1932**, 715; for 1932, **1933**, 611; for 1933, **1934**, 696; for 1932–33, **1935**, 249; for 1934, **1935**, 687.

No. 8. On the measurement of humidity in closed spaces. **1926**, 35.

No. 23. On functional diseases of apples in cold storage. **1926**, 85.

No. 25. On the handling and transport of fish. E. Griffiths and C. Heron, **1926**, 350.

No. 31. Changes produced in meat extracts by the bacterium *Staphylococcus aureus*. F. W. Foreman and G. S. Graham Smith, **1928**, 338.

No. 32. Control of reaction in cultures and enzymic digests. F. W. Foreman and G. S. G. Smith, **1928**, 339.

No. 33. A critical and historical study of the pectic substances of plants. **1929**, 594.

No. 35. Heat insulators. **1929**, 743.

No. 38. Wastage in imported fruit: its nature, extent and prevention. J. Baker, **1930**, 638.

No. 40. Corrosion of the tin-plate container by food products. **1931**, 315.

No. 41. Freezing, storage and transport of New Zealand lamb. E. Griffiths, J. R. Vickery and N. E. Holmes, **1932**, 574.

No. 42. The yellowing of the abdominal fat of frozen rabbits. J. R. Vickery, **1932**, 520.

Food Investigation Board Reports—continued.

- Privy Council Committee Report, **1928**, 221, 222.
- Food Manufacturers' Federation**: Report of the Preservatives Determination Committee of the Chemists of the Manufacturing Confectioners' Alliance and of the ——. Determination of Sulphur dioxide, **1928**, 118.
- Foods**: Adulteration and Analysis of Drugs and ——. (Review), J. F. Liverseege, **1932**, 595. Analysis of Drugs and ——; Aids to. 5th Edn. C. G. Moor and W. Partridge. (Review), **1935**, 648.
- Animal ——. See **Animal Foods**.
- Bacterial Examination of ——; Methods for. (Review), W. Gaetgens, **1926**, 377.
- benzoic acid in ——; New methods for determining. G. W. Monier-Williams, **1927**, 572.
- Calcium and vitamin *D* in ——. E. F. Kohman and Others, **1934**, 710.
- Canned ——. See **Canned Foods**.
- Cattle ——; Microscopical Examination of. (Review), S. T. Parkinson and W. L. Fielding, **1932**, 136.
- Chemical Analysis of ——; The. (Review), H. E. Cox, **1926**, 164.
- Copper content of plant and animal ——. C. W. Lindow, C. A. Elvehjem and W. H. Peterson, **1929**, 420.
- copper in ——; Determination of. A. A. D. Comrie, **1935**, 532.
- copper in ——; Determination of, with special reference to milk. N. D. Sylvester and L. H. Lampitt, **1935**, 376.
- dried-; Effect of storage on vitamin *A* in ——. G. S. Fraps and R. Treichler, **1933**, 415.
- Effect of fumigation with hydrogen cyanide on ——. Public Health Report No. 60. **1931**, 46.
- Effect of wrapping material on the fat of fatty ——. W. L. Davies, **1934**, 495.
- flesh-; Chemistry of —— and their losses on cooking. Medical Research Council Special Report No. 187. R. A. McCance and H. L. Shipp, **1934**, 548.
- Gas warfare and ——. W. Plücker, **1934**, 841.
- Glass fragments in ——. **1926**, 626.
- glass fragments in —— packed in glass containers; Occurrence of. Ministry of Health Report, No. 37. G. L. Hancock, **1927**, 284.
- heat penetration in processed ——; Protective tubes for thermo-couples for determining. K. L. Ford and A. G. Osborne, **1928**, 180.
- p*-hydroxybenzoic acid methyl ester in ——; Detection and determination of. F. Weiss, **1928**, 291.
- Iron content of plant and animal ——. W. H. Peterson and C. A. Elvehjem, **1928**, 444.
- lead in ——; Methods for determining. H. J. Wichmann and Others, **1934**, 289.
- made from yeast. E. Stern and H. Becker, **1926**, 250.
- Manganese content of certain ——. G. Büttner and A. Miermeister, **1933**, 615.
- methyl chloride in ——; Detection and determination of. M. J. Martinek and W. C. Marti, **1932**, 122.
- Foods—continued.**
- Oils, Fats and Fatty ——. (Review), E. R. Bolton, **1928**, 363.
- Practical Dictionary of ——. (Review), E. Santangelo, **1933**, 123.
- soya bean flour in manufactured ——; Detection of. C. H. La Wall and J. W. E. Harrison, **1934**, 552.
- Standardisation of the method of presenting results of the analysis of ——. **1931**, 316.
- Structure and Composition of ——. Vol. I, Cereals, Nuts and Oilseeds. (Review), A. L. and K. B. Winton, **1932**, 545. Vol. II, Vegetables and Fruits. (Review), **1935**, 852.
- Sulphur content of ——. K. S. Kemmerer and P. W. Boutwell, **1932**, 783.
- sulphur dioxide in ——; Determination of. Ministry of Health Report, No. 43. G. W. Monier-Williams, **1927**, 343, 415.
- Sulphur dioxide in —— determined by distillation in a vacuum. H. O. Jones, **1928**, 138.
- sulphur dioxide in ——; Air-free water for determining. D. M. Freeland. **1930**, 383.
- sulphur dioxide in ——; Rapid limit test for detecting and determining. M. Herd, **1930**, 35.
- Their Composition and Analysis. (Review), A. W. Blyth and M. W. Blyth, **1928**, 461.
- Use of ultra-violet light in the examination of ——. Popp, **1926**, 540.
- vitamin *A* in fatty ——; Test for. A. Anderson and E. Nightingale, **1929**, 481.
- Vitamins added to ——. **1933**, 757.
- Foodstuffs**: amino acids in ——; Determination of. J. Tillmans and J. Kiesgen, **1927**, 417.
- ammonia, trimethylamine and other amines in ——; Determination of. F. Okoloff, **1932**, 321.
- Antiscorbic value of —— determined by Höjer's method. M. Goetsch, **1928**, 611.
- benzoic acid in ——; Application of Mohler's test to the detection and determination of. E. T. Illing, **1932**, 226.
- benzoic acid in ——; Determination of. G. W. Monier-Williams, **1927**, 237. Public Health Report, No. 39. G. W. Monier-Williams, **1927**, 153, 229.
- butyric acid in ——; Detection, determination and occurrence of. J. Grossfeld and F. Battay, **1931**, 403.
- containing Alkaloids, Spices, Salt. Vol. VI of *Handbuch der Lebensmittel-Chemie*. (Review), **1934**, 345.
- cooked in glass and in aluminium; Aluminium content of ——. G. D. Beal, R. B. Unangst, H. B. Wigman, and G. J. Cox, **1932**, 392.
- Copper contents of ——. F. Grendel, **1930**, 700.
- copper in ——; Determination of. L. H. Lampitt, E. B. Hughes, P. Bilham and C. H. F. Fuller, **1926**, 327.
- diacetyl and methyl-acetyl carbinol in ——; Detection of. H. Schmalfluss and H. Barthmeyer, **1932**, 389.

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- 2,6-dichlorophenol-indophenol as a reduction indicator in the examination of —. J. Tillmans, P. Hirsch and E. Reinshagen, **1929**, 176.
- Digestibility of common — as determined by radiography. W. C. D. Maile and K. J. L. Scott, **1935**, 192.
- Examination of — for preservatives: A caution. A. C. Chapman, **1927**, 215.
- Factors for converting percentages of nitrogen in — into percentages of proteins. D. B. Jones, **1931**, 813.
- Formol titration as means of distinguishing natural and artificial —. J. Tillmans and J. Kiesgen, **1927**, 417.
- Formaldehyde in smoked — and wood smoke. E. H. Callow, **1927**, 391.
- General Methods of Examining —. (Review), W. Plücker, **1931**, 344.
- p*-hydroxybenzoic acid and its esters in —; Detection and determination of. F. Weiss, **1930**, 584.
- Manganese in —. C. Newcomb and G. Sankaran, **1929**, 348; A. E. Boycott and G. R. Cameron, **1931**, 55.
- margarine and hardened oils in —; Detection of. J. Grossfeld and J. Peter, **1935**, 105.
- Phytin content of —. H. P. Averill and C. G. King, **1926**, 252.
- prohibited vegetable and coal tar colours in —; Detection of. J. R. Nicholls, **1927**, 585; **1929**, 335; Identification of —. A. R. Jamieson and C. M. Keyworth, **1928**, 418.
- Reduction-capacity of plant — and its relation to vitamin C. I, Reducing substance in lemon juices. J. Tillmans, P. Hirsch and W. Hirsch, **1932**, 260; III, Content of reducing substance in different fruits and vegetables. J. Tillmans, P. Hirsch and J. Jackisch, **1932**, 396; IV, Reversibility of the oxidation of the reducing substances in lemon juice. J. Tillmans, P. Hirsch and H. Dick, **1932**, 397; V, J. Tillmans, P. Hirsch and R. Vaubel, **1933**, 295.
- saccharin content of —; Determination of. J. E. Heesterman, **1932**, 323.
- Serological Methods in the Investigation of —. (Review), P. Manteufel, **1927**, 308.
- Serum diagnosis in the investigation of —. C. Griebel and H. Maass, **1932**, 326.
- sodium, potassium and chlorine in —; Determination of. A. D. Husband and W. Godden, **1927**, 72.
- sulphites in —; Simple method of testing for. A. E. Parkes, **1926**, 620.
- sulphur dioxide in —; Determination of. H. Drake-Law, **1927**, 352.
- Tartaric acid determination in —. J. King, **1933**, 135.
- Thermal properties of —. **1933**, 403.
- tin in —; Volumetric method for determining. B. Glassmann and S. Barsutzkaja, **1929**, 110.
- Vitamin B₁ values of —. Cereals II, R. H. A. Plimmer, W. H. Raymond and J. Lowndes, **1931**, 679.

Foodstuffs—continued.

- Vitamin C in Indian —. **1935**, 616. A. R. Ghosh and B. C. Guha, **1935**, 424.
- Zinc content of the principal vegetable —. G. Bertrand and B. Benzon, **1929**, 349.
- Forensic cases**; Carbon monoxide poisoning in —. D. J. A. Kerr, **1927**, 296.
- cases; Detection of spermata in —. J. Peltzer, **1931**, 198.
- Chemistry and Scientific Criminal Investigation. (Review), A. Lucas, **1932**, 135.
- detection of benzene; Microchemical colour reaction of *m*-dinitrobenzene for —. J. Peltzer, **1933**, 297.
- investigations; Use of blood-grouping reactions in —. F. C. Martley, **1928**, 14.
- medicine; Group-specific substances in —. R. B. Lloyd, **1932**, 262.
- value of the precipitin test. G. R. Lynch, **1928**, 5.
- Forest Products**; Australian Division of —. Technical Papers. No. 1, Identification of wood by chemical means. Part 1, H. E. Dadswell, **1932**, 101; No. 2, Density of Australian timbers. H. E. Dadswell, **1932**, 102; No. 3, Study of lignin determination. W. E. Cohen and H. E. Dadswell, **1932**, 103; Nos. 4 and 5, The chemical composition of woods of the iron-bark group, **1933**, 345.
- Forest Products Research Board Report**. **1933**, 155; **1935**, 176.
- Forest Products Research Station**: **1928**, 222.
- Forgeries**: Contested Documents and —. F. Brewster, **1933**, 314.
- of old masters; Modern —. A. P. Laurie, **1934**, 657.
- (Review), S. Türkel, **1931**, 141.
- Shakspeare — in the Revels Accounts. (Review), S. A. Tannenbaum, **1929**, 627.
- Traced —. **1932**, 153.
- Forgery**: Detection of a banknote — by means of ultra-violet light. J. Grant, **1933**, 603.
- of documents in Palestine. **1930**, 49.
- Formaldehyde** and urotropine in mixtures; Identification and separation of —. M. V. Ionescu, **1928**, 507.
- Colour reaction of — and ketones with sodium nitroprusside and hydroxylamine. P. Pratesi, **1932**, 122.
- Detection of codeine and —. J. Aloy and A. Valdiguié, **1927**, 41.
- Determination of — by acidimetry. M. Malaprada, **1934**, 361.
- Determination of — by means of potassium bromate. L. Spitzer, **1933**, 360.
- Effect of glucose on the condensation of —. I, Determination of urinary sugar by this principle. F. B. Kingsbury, **1928**, 45.
- Formation of urea and of a substance giving the same colour reaction as — with hydrazine, on heating vegetable juices. R. Fosse, **1926**, 152.
- Gravimetric determination of —. M. V. Ionescu and C. Bodea, **1931**, 200.
- Identification of small amounts of — with dimethyl-hydro-resorcinol. L. Kofler and H. Hilbeck, **1930**, 528.

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- in admixture with acetaldehyde; New method for differentiating and determining —. M. V. Ionescu and H. Slusanschi, **1934**, 57.
- in canned marine products. G. Lunde and E. Mathiesen, **1934**, 759.
- in certain marine products. D. B. Dill and P. B. Clark, **1926**, 304.
- in certain pharmaceutical preparations; Determination of —. O. Heim, **1929**, 537.
- in fish. D. B. Dill and P. B. Clark, **1927**, 222.
- in fish; Examination for —. A. R. Tankard and D. J. T. Bagnall, **1926**, 565.
- in formalin tablets; Determination of —. I. M. Kolthoff, **1926**, 254.
- in milk; Detection of —. T. McLachlan, **1935**, 752.
- in presence of sulphites; Volumetric determination of —. J. Eury, **1934**, 429.
- in sausages. (Legal Notes), **1926**, 630.
- in terrestrial and solar atmospheres. N. R. Dhar and A. Ram, **1933**, 634.
- in wood smoke and smoked foodstuffs; Presence of —. E. H. Callow, **1927**, 391.
- Methone as reagent for —. **1929**, 486.
- Relative effectiveness of — as disinfectant. **1926**, 259.
- Specification for —. **1934**, 696.
- Spot test for —. **1933**, 372.
- titration of certain amino-acids. S. L. Jodidi, **1926**, 263.
- titration of milk proteins and its use in the detection of re-constituted creams, etc. J. C. Harral, **1933**, 605.
- titration; Romijn's —. **1930**, 208.
- Formaldehyde-Azo-Test** for vitamin B_1 . H. W. Kennerley and R. A. Peters, **1934**, 563.
- Formaldoxime** as means of detecting and colorimetrically determining nickel in cobalt salts. G. Denigès, **1934**, 200.
- Colour reaction of manganese with —. E. Kahane, **1935**, 573.
- Formalin** in milk. **1933**, 342, 471.
- poisoning. **1932**, 718.
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- Formic Acid** as a poison. **1932**, 576.
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- in commercial acetic acid. L. Daniel, **1927**, 549.
- in food products; Separation of — by distillation with xylene. J. K. Morton and G. C. Spencer, **1926**, 415.
- in fruit juices; Determination of —. A. Hanak and K. Kürschner, **1931**, 116.
- in fruit juices and fruit syrups; Volumetric method for determining —. G. von Szelényi, **1932**, 524.
- in sugar. **1935**, 612.
- in vinegar and "vinegar essence." A. Kreutz and C. Büchner, **1927**, 93.
- Relative effectiveness of — as disinfectant. **1926**, 259.
- Formol Titration** applied to honey. H. A. Schuette and V. Templin, **1932**, 282.
- as a means of distinguishing artificial and natural foodstuffs. J. Tillmans and J. Keisgen, **1927**, 417.

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- in the investigation of honey. A. Gottfried, **1929**, 670.
- number as a means of evaluating fruit juices, fruit-lemonade syrups, jams and wines. W. Schut, **1935**, 557.
- of hydrazine sulphate. B. Stempel, **1933**, 244.
- of lemon juices. A. Niethammer, **1930**, 517.
- Formulae** in Chemistry. An Historical Study. (Review), R. M. Caven and J. A. Cranston, **1928**, 677.
- Writing and indexing of chemical —, **1926**, 192, 194, 195.
- Foundry** products; Recommended methods for sampling and analysis of —. (British Cast Iron Research Association, Report No. 72), **1930**, 198.
- Fowls**: Boric acid on —. **1935**, 405.
- Conversion of carotene into vitamin A by —. N. S. Capper, J. M. W. McKibbin and J. H. Prentice, **1931**, 473.
- Highly unsaturated fatty acids in the oils of some —. J. B. Brown and C. C. Sheldon, **1934**, 831.
- Fox** fur; Characteristics of —. **1929**, 696.
- Milk of the silver —. O. Laxa, **1930**, 204.
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- Fraud**: Cases of — in Ceylon. **1929**, 544.
- Proof of — by means of receipt stamps. **1931**, 668.
- Freezing** of beef. **1927**, 541.
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- preservation of fruits and vegetables. **1935**, 826.
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- Freezing Point** method for examining cocoa butter. A. G. Avent, **1931**, 180.
- method of classifying cacao butter and its substitutes. A. G. Avent, **1930**, 477.
- of cows' colostrum. G. D. Elsdon, **1934**, 665.
- of hens' eggs. J. Straub and C. M. Donck, **1934**, 701.
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- Fresh-Water** crustaceans and fish; Arsenic in —. **1926**, 558.
- Frost**: Effect of — on tellurium-lead pipes. **1933**, 367.
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- Fructose**: Alcoholic fermentation of glucose, mannose and — mixtures. H. Sobotka and M. Reiner, **1930**, 712.
- Alcoholic fermentation of mixtures of glucose and — by brewer's and Sauterne yeasts. R. H. Hopkins, **1931**, 463.
- Determination of sucrose, inulin and —. W. R. Campbell and M. I. Hanna, **1926**, 582.
- in blood and urine; Colorimetric determination of —. J. H. Roe, **1934**, 835.

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- in blood; New method for determining —. L. B. Scott, **1935**, 562.
- Micro-organisms used in analysis of —. **1934**, 54.
- retardation of invertase action. J. M. Nelson and R. S. Anderson, **1926**, 588.
- Selective fermentation of glucose and — by brewer's yeast. R. H. Hopkins, **1928**, 668; E. R. Dawson, **1932**, 536.
- Fruit** and apple jams; Analysis of —. C. F. Muttelet, **1927**, 598.
- and fruit products; Analysis of —. E. B. Hughes and A. E. Maunsell, **1934**, 231. Erratum, **1934**, 338.
- Arsenic and lead in — as a result of treatment with protecting agents. L. Lendrich and F. Mayer, **1927**, 237.
- Artificial coloration of — by means of gases. **1935**, 41.
- Bacteria on —. J. T. Smeall, **1933**, 48.
- Boric acid as natural constituent of —. **1927**, 460.
- boron compounds in —; Natural occurrence of. A. Scott Dodd, **1929**, 15.
- canned-; "Blowing" of — due to chemical action. G. W. Monier-Williams, **1926**, 402.
- Canned —. Ministry of Agriculture and Fisheries Statutory Rules and Orders, **1933**, No. 538. **1933**, 476.
- Composition of —. L. H. Lampitt and E. B. Hughes, **1928**, 32.
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- cordials. **1926**, 246.
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- drinks. **1931**, 740; **1932**, 780.
- Effect of *Byssochlamys fulva* on the tissues of processed —. M. Olliver and T. Rendle, **1934**, 564.
- Effect of fumigation with hydrocyanic acid on —. F. Beran, **1933**, 775; **1935**, 333.
- essences; Behaviour of artificial and natural — towards sodium paratoluene-sulphon-chloramide (Heyden chloramine). A. Miermeister, **1931**, 51.
- Freezing preservation of —. **1935**, 826.
- Gaseous products of ripe —. **1934**, 698.
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- jelly; Preservative in —. **1931**, 31.
- juice; Raspberry jam, with declaration of added —. (Legal Notes), **1927**, 535.
- juice; Revised and amended definitions and standards for —. (U.S. Dept. of Agriculture.) **1930**, 637.
- juice rich in tannin as a sensitive reagent for pectin. C. Griebel, **1932**, 385.
- juices; Aluminium in the ash of —. L. Hart, **1932**, 525.
- juices and similar products; Detection of artificial colouring matters in —. A. De Kroes and A. Reclaire, **1928**, 602.
- juices and syrups; Volumetric method for determining formic acid in —. G. von Szelényi, **1932**, 524.
- juices; Determination of formic acid in —. A. Hanak and K. Kürschner, **1931**, 116.
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- juices from frozen —; Comparative study of. T. A. Pickett, **1932**, 385.
- juices in wine; Detection of —. J. Werder, **1929**, 476.
- juices; Refractometric studies on —. H. Eckart, **1931**, 461.
- juices; Refractometry as an aid to the investigation of —. H. Eckart, **1926**, 40.
- juices; Standard for citrus —. **1932**, 97.
- Lead arsenate in —. **1935**, 40.
- Preservation of —. **1926**, 143.
- Preservation; Principles of —. (Review), T. N. Morris, **1933**, 507.
- Preservation Research Station, Campden. Report for 1933-34. **1935**, 695.
- preserves (cherries and strawberries); Detection of apple juice in —. C. F. Muttelet, **1928**, 101.
- products; Detection of sorbitol in —. G. Reif, **1934**, 760.
- products; Determination of citric acid in —. B. G. Hartmann and F. Hillig, **1928**, 443; **1930**, 396.
- products; Determination of inactive malic acid in —. B. G. Hartmann and F. Hillig, **1933**, 482.
- products; Determination of *l*-malic acid in —. B. G. Hartmann and F. Hillig, **1933**, 40.
- products; Determination of tartaric acid in fruits and —. B. G. Hartmann and F. Hillig, **1930**, 397.
- products; Use of lead acetate in determining the acidity of —. B. G. Hartmann and F. Hillig, **1930**, 517.
- pulps and fresh fruits; Composition of —. H. Mansfield, **1927**, 351.
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- solutions containing added phosphoric acid; Potentiometric titration of strongly coloured —. A. Gaines, Junr., **1933**, 39.
- Spoilage of processed — by *Byssochlamys fulva*. **1935**, 697.
- Statutory Rules and Orders, No. 458 (—), **1931**. **1932**, 463.
- Texture of canned —. **1935**, 697.
- Wastage in imported —: its nature, extent and prevention. J. Baker, **1930**, 634.
- wine in grape wine; Detection of —. T. Röttgen, **1927**, 39; K. Müller, E. Vogt and O. Raesch, **1927**, 599; M. Rüdiger and W. Diemair, **1927**, 599; B. Bleyer and W. Diemair, **1929**, 603.
- wine in grape wine; Detection of — by means of dibenzal-sorbitol. C. von der Heide and K. Hennig, **1929**, 422.
- wine in grape wine; Detection of — by the sorbitol process. A. Röhling and J. Richarz, **1930**, 201; G. Reif, **1930**, 335; M. Klostermann and W. Fachmann, **1931**, 405.
- wine in wine; Detection of — by means of microscopical examination of the turbidity. A. Widmer and O. E. Kalberer, **1927**, 481.

- Fruit**—*continued*.
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 ‘**Fruit Coat**’ fats; General features common to most —. T. P. Hilditch, **1933**, 484.
Fruit-Type Products: acidity of highly coloured —; Determination of. C. H. Badger and J. W. Sale, **1926**, 583.
Fruits: acetaldehyde in tropical —; Occurrence of —. A. Steinmann, **1935**, 703.
 Acidity and corrosion in canned —. E. F. Kohman and N. H. Sanborn, **1930**, 582.
 Analyses of Canadian preserved —. **1930**, 392.
 and fruit pulps; Composition of fresh —. H. Mansfield, **1927**, 351.
 and Vegetables. Food Inspection Decision, No. 203 of the U.S. Dept. of Agriculture. **1927**, 88.
 antiscorbutic property of —; Effect of drying and of sulphur dioxide on. A. F. Morgan and A. Field, **1929**, 483.
 canned; Agricultural Produce (Grading and Marking) Regulations. **1931**, 108.
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 Composition of — as used in jam manufacture in Great Britain. T. Macara, **1931**, 35.
 Conductivity of certain —. Their acidity and degree of ripening. R. Tomii and G. Kitajima, **1933**, 551.
 Dried —. *See Dried Fruits*.
 Effect of light upon vitamin A activity and carotenoid content of —. L. L. W. Smith and A. F. Morgan, **1933**, 561.
 Examination of — by lead precipitation. C. L. Hinton, **1934**, 248.
 malic acid —; Determination of inactive. B. G. Hartmann and F. Hillig, **1933**, 482.
l-Malic acid determined in —. B. G. Hartmann and F. Hillig, **1933**, 40.
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 rancidity in fats from intact —; Detection of. A. Niethammer, **1929**, 548.
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 tartaric acid in fruit products and —; Determination of. B. G. Hartmann and F. Hillig, **1930**, 397.
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Frying: Changes in fats during —. F. R. Porter, H. Michaelis and F. G. Shay, **1932**, 660.
Fuel: Colloidal —. **1934**, 37.
 Creosote for — in Furnaces. British Standard Specification No. 503. **1933**, 730.
Fuel Research Board: **1928**, 221; **1934**, 34.
 Reports of:
 No. 7. Methods of analysis of coal, **1927**, 345, 594.
 No. 20. The Thomas recording gas calorimeter. **1928**, 385.
 No. 21. Assay of Coal for Carbonisation Purposes (Part 2), **1929**, 233.
 No. 22. The reactivity of coke. **1929**, 471.
 No. 24. Assay of Coal for Carbonisation Purposes (Part 3). J. G. King and L. J. Edgcombe, **1930**, 279.
 No. 27. Measurement of a rapidly fluctuating flow of gas. **1931**, 111.
 No. 28. Methods for the quantitative analysis of coal ash. J. G. King and H. E. Crossley, **1933**, 614.
 No. 31. Analysis of Commercial Grades of Coal. **1934**, 540.
Fuels: Applied Chemistry. Vol. I. —. (Review), C. K. Tinkler and H. Masters, **1929**, 311.
 motor-; Determination of lead tetraethyl in —. G. Ferreri, **1926**, 104.
 motor-; Determination of unsaturated aromatic, naphthene and paraffin hydrocarbons in —. G. Egluff and J. C. Morell, **1926**, 316.
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 sulphur in volatile —; Determination of. H. T. Kennedy, **1928**, 300.
Fulham: Appointment of W. Partridge as Public Analyst for Metropolitan Borough of —. **1933**, 155.
 Report of the Public Analyst for — for the year 1934. T. McLachlan, **1935**, 753.
Fuller's Earth: Acidity of Japanese —. K. Kobayashi, **1927**, 559.
 Concentration of vitamin *G*(*B*₂) by adsorption and elution of —. S. Lepkovsky, W. Popper and H. M. Evans, **1935**, 195.
 Isomerisation of ergosterol by means of —. F. G. McDonald and C. E. Bills, **1930**, 711.
Fumaric Acid: Halogen absorption of —. **1929**, 448.
Fumes from cement works; Damage caused by —. (Legal Notes), **1930**, 449.
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Fumigant for cereal products; Possibilities and limitations of chloropicrin as a —. R. N. Chapman, **1926**, 262.
Fumigants: Tests of various aliphatic compounds as —. R. C. Roark and R. T. Cotton, **1930**, 407.
Fumigation of ships with hydrogen cyanide. Ministry of Health Report. **1928**, 341.
 with hydrocyanic acid; Effect of — on fruit. F. Beran, **1933**, 775; **1935**, 333.
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- durability of Philippine woods against —; Laboratory tests on the. O. A. Reinking, **1931**, 474.
- Edible and Poisonous —. (Review), Ministry of Agriculture and Fisheries Publication No. 54. **1926**, 604.
- Edible and poisonous — of Cyprus. S. G. Willimott, **1933**, 553.
- Growth and nutrition of —. E. J. Moore, **1933**, 564.
- Haemolysins of —. V. Pettinari, **1926**, 260. imperfect, and a further plea for an Institute of Industrial Micro-Biology. A. C. Chapman, **1926**, 319.
- Inhibitory action of certain substances on the growth of mould —. R. G. Fargher, L. D. Galloway and M. E. Probert, **1930**, 524.
- Micro-mounting of mould —. **1927**, 295.
- Moisture requirements of mould —, with special reference to mildew in textiles. L. D. Galloway, **1935**, 425.
- oxidase in various —; Presence of an unknown. J. Wolff, **1926**, 206.
- wood-rotting —; Production of acid by. L. P. Curtin, **1927**, 554.
- Fungicidal** action of selenium and tellurium compounds. N. M. Strover and B. S. Hopkins, **1927**, 356.
- Fungicide**: Standards for copper carbonate —. **1934**, 825.
- Fungicides**: Analysis of —. **1927**, 538. Examination of — in Canada. **1928**, 596. Ministry of Agriculture Specifications and Methods of Analysis of certain —. Bull. No. 82. **1934**, 694.
- Fungus** cultures; Determination of enzyme yield in —. Z. I. Kertesz, **1931**, 193.
- Fruit-rotting —. **1929**, 35.
- Indian tea —. E. Dinslage and W. Ludorff, **1927**, 605.
- Pathogenic — on wool cloth. A. G. Gould and E. K. Carter, **1932**, 55.
- Funnel**: Porcelain hot water —. **1928**, 180.
- Funnel-Fitting** for rapid filtration. H. Tramm, **1933**, 373.
- Fur**: dermatitis due to dyed —; Experimental observations on. G. H. Percival, **1931**, 754. dermatitis; Note on —. S. A. Woodhead, **1934**, 815. dermatitis. *See also* **Furs**.
- dyes; their oxidation and identification on the fibre. R. B. Forster and C. Soyka, **1931**, 476.
- Furan** compounds; Condensation of —. III, Condensation products of furfural with acetone in acid and alkaline media, and a new method of determining small quantities of furfural. W. W. Tschelinzeff and E. K. Nikitin, **1934**, 569.
- Furfural**: Condensation products of — with acetone in acid and alkaline media, and a new method of determining small quantities of —. W. W. Tschelinzeff and E. K. Nikitin, **1934**, 569.
- Determination of — with bromine. E. E. Hughes and S. F. Acree, **1934**, 430.

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- in heated honey. L. H. Lampitt, E. B. Hughes and H. S. Rooke, **1929**, 381, 736. •
- in vinegar; On the presence and detection of —. L. H. Lampitt, E. B. Hughes and L. H. Trace, **1927**, 260.
- number of tanning extracts and their mixtures with sulphite cellulose extract. V. Nemeč, **1931**, 761.
- Spot test for —. **1933**, 373.
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- α -Furil Dioxime** as reagent for determining nickel in rock analysis. **1933**, 681.
- Furoic Acid** as an acidimetric standard. H. B. and A. M. Kellog, **1934**, 712.
- Furs**: Chemical examination of — in relation to dermatitis. H. E. Cox. I, **1929**, 694. II, Results of tests on — alleged to have caused dermatitis. **1933**, 738. III, Action of *p*-phenylenediamine on the skin. **1933**, 743. IV, Chemical reactions of dyeing with *p*-phenylenediamine and *p*-aminophenol. **1934**, 3. V, The action of acid on Bandrowski's base. H. E. Cox and J. U. Lewin, **1935**, 350. VI, Identification of vegetable and other dyes. H. E. Cox, **1935**, 793.
- Fusain** in bituminous coal; Electrostatic method of determining —. J. D. Davis and J. A. Younkins, **1929**, 616.
- Fusel Oil**: Determination of —. B. Bleyer, W. Diemair and E. Frank, **1934**, 59. ethyl alcohol in —; Determination of. J. M. Macoun, **1933**, 664.
- Fustic** on furs; Identification of —. **1935**, 796.

G

- G Acid**: Separation of Crocein, Schäffer, R and — and their arylamine salts. R. B. Forster and C. M. Keyworth, **1927**, 169.
- Gadoleic Acid** in cod-liver oil. Y. Toyama and T. Tsuchiya, **1934**, 351.
- in Japanese sardine oil, herring oil and liver-oil of "sukeso-dara" (*Theragra chalcogramma*). Y. Toyama and T. Tsuchiya, **1934**, 352.
- in sei whale and humpback whale oils. Y. Toyama and T. Ishikawa, **1934**, 832.
- Gadolinium**: Atomic weight of —. **1928**, 160, 289; **1929**, 296; **1934**, 547.
- Galactonic Acid** in pectin; Determination of —. W. H. Dore, **1926**, 151.
- Galactose**: Biological reagent for determining —. V. J. Harding, T. F. Nicholson and G. A. Grant, **1933**, 172.
- in blood and urine; Determination of —. V. J. Harding and G. A. Grant, **1932**, 183. Micro-organisms used in analysis of —. **1934**, 54. •
- Galena**: sulphur in lead and —; Determination of. H. Leysaht. **1929**, 489.

- Galenicals:** Mercury determined in ——. E. Schulek and S. Floderer, **1934**, 434.
- Gallie Acid** as reagent for titanium. P. N. Das-Gupta, **1930**, 294.
in absence of tannin; Determination of ——. M. Hirsch, **1927**, 656.
- Gallium:** analytical behaviour of ——. Notes on. E. S. von Bergkampff, **1933**, 111.
Analytical chemistry of ——. L. Moser and A. Brukl. Part 1, **1929**, 64; Part 2, **1929**, 367 (see also list of Errata); Part 3, A. Brukl, **1930**, 218.
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Potentiometric determination of ——. H. D. Kirschman and J. B. Ramsey, **1928**, 455; Erratum, **1928**, 511.
Reaction of aluminum with hydroxides of scandium, indium, thallium, germanium and ——. R. B. Corey and H. W. Rogers, **1927**, 172.
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- Gallium-in-Quartz** thermometer graduated to 1000° C. S. Boyer, **1926**, 110.
- Gallocyanin** test for zirconium. **1931**, 209.
- Gallotannic Acid** dyes on furs; Identification of ——. **1935**, 798.
- Gallotannin:** Analyses of commercial ——. **1932**, 761.
as a means for the quantitative separation of pilocarpine from quinine; Experiments on. M. Nierenstein, **1932**, 94.
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- Gamboge** in foodstuffs; Detection of ——. **1927**, 585.
- Ganua (Bassia) Motleyana (Sap):** Oil from the seeds of ——. J. Zimmermann, **1933**, 763.
- Garcinia Morella** fat. D. R. Dhingra, G. L. Seth and P. C. Speers, **1933**, 350.
- Gardenal:** Action of salts of mercury on ——. P. Fleury, **1926**, 92.
Post-mortem transformation of veronal, dial and — into hydrocyanogen compounds. E. Kohn-Abrest, H. Villard and L. Capus, **1930**, 291.
- Gas** analysis apparatus; Acetone as a control apparatus for ——. T. M. Carpenter, E. L. Fox and A. F. Serque, **1929**, 427.
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analysis apparatus modified for determination of methane in metabolism experiments. T. M. Carpenter and E. L. Fox, **1926**, 636.
Analysis by Measurement of Thermal Conductivity. (Review), H. A. Daynes, **1933**, 425.
- Gas—continued.**
analysis; Comparison of the reaction-capacity towards oxygen of different absorbing materials used in technical ——. **1932**, 589.
analysis; Micro methods of ——. H. Schwarz and F. Rappaport, **1934**, 138.
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analysis; Portable apparatus for precise ——. H. R. Ambler, **1932**, 276.
Analysis; Technical ——. (Review), G. Lunge. Revised by H. R. Ambler, **1934**, 512.
analysis; Use of alkaline pyrogallate solution in ——. J. S. Haldane and R. H. Makgill, **1933**, 378.
Apparatus for the analysis of small samples of ——. H. R. Ambler, **1929**, 517.
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illuminating-; Testing of well-water for pollution with ——. Regenstein, **1927**, 654.
Measurement of a rapidly fluctuating flow of ——. Fuel Research Paper No. 27. **1931**, 111.
nitrogen in lighting and heating —; Direct determination of. W. Steuer, **1927**, 47.
Nomogram for converting observed volumes of — to normal temperature and pressure. J. H. Coste, **1929**, 656.
petroleum; Aromatic hydrocarbon content of natural —. A. M. Erskine, **1926**, 476.
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Thomas recording — calorimeter. Fuel Research Paper No. 20. **1928**, 385.
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- Gas-Holder** for constant pressure. J. Lindner, **1934**, 139; H. O. Hohl, **1934**, 139.
- Gas-Warfare** and food. W. Plücker, **1934**, 841.
- Gas-Works** effluents. **1935**, 39.
- Gaseous** Combustion at High Pressures. (Review), W. A. Bone, D. M. Newitt and D. T. A. Townend, **1930**, 302.
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- mixtures; Determination of small quantities of hydrogen in ——. P. Lebeau and P. Marmasse, **1926**, 366.
- mixtures; Rapid method for determining hydrogen sulphide in ——. P. Woog, R. Sigwalt and J. de Saint-Mais, **1935**, 640.
- Systems; Photo-Processes in Liquid and ——. (Review), R. O. Griffith and A. McKeown, **1930**, 72.
- Gases**: Adsorption of — by Solids. S. J. Gregg, **1934**, 514.
- as means of artificially colouring fruit. **1935**, 41.
- butadiene in —; Determination of. H. Tropsch and W. J. Mattox, **1934**, 430.
- Chlorine and bromine in — detected by means of resorufin. H. Eichler, **1935**, 121.
- combustible — in human expired air; Traces of. T. R. Parsons, **1930**, 585.
- dehydrating agents for —; Use of anhydrous perchlorates as. G. F. Smith, **1927**, 307.
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- Flame and Combustion in —. (Review), W. A. Bone and D. T. A. Townend, **1927**, 734.
- from the carbonisation of coal; "Unsaturated hydrocarbons" in —. A. B. Manning, J. G. King and F. S. Sinnatt, **1926**, 224.
- hydrogen in —; Sources of error in determining. H. R. Ambler, **1930**, 436.
- Ignition points of — in nitrous oxide. H. B. Dixon, **1927**, 614.
- in canned foods. **1935**, 697.
- micro-analysis of —; Dry method for the. F. E. Blacet and P. A. Leighton, **1932**, 337.
- Micro density determination of — by direct weighing. E. W. Blank, **1933**, 641.
- neon in natural —; Quantitative determination of. N. P. Péncheff, **1929**, 617.
- nitrogen in —; Direct determination of. H. R. Ambler, **1931**, 804.
- nitrogen in inert —; Use of metallic lithium in the determination of. J. H. Severyns, E. R. Wilkinson and W. C. Schumb, **1932**, 796.
- Noble —. Vol. IV of Abegg's Handbook of Inorganic Chemistry. (Review), E. Rabinowitsch, **1928**, 678.
- Oxidation of various — by means of copper oxide, lead chromate and cobalt oxide. J. R. Campbell and T. Gray, **1931**, 60.
- oxygen in —; Determination of small amounts of. H. R. Ambler, **1930**, 677.
- oxygen in —; Rapid colorimetric method for detecting and determining. H. R. Ambler, **1934**, 14.
- phosphine in —; Rapid determination of. M. Wilmet, **1927**, 558.
- Photo-electric determination of coloured —. H. and A. Copaux, **1926**, 111.
- Poisoning by —. **1928**, 592; **1931**, 744.
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- Toxic — produced from ferrosilicons in presence of water. H. Delomenie, **1933**, 774.
- Gasoline**: lead tetraethyl in —; Determination of. L. J. Catlin and J. E. Starrett, **1930**, 771.
- Gasometric** calcium carbide method for determining moisture. W. A. Jakowenko, **1926**, 106.
- determination of methaemoglobin. D. D. Van Slyke and A. Hiller, **1929**, 760.
- determination of small amounts of carbon monoxide in blood, and its application to blood volume studies. D. D. Van Slyke and F. S. Robscheit-Robbins, **1927**, 291.
- determination of water (moisture) by means of calcium hydride. O. Notevarp, **1930**, 344.
- measurement of the carbon dioxide formed by the action of urease; Determination of urea by —. D. D. Van Slyke, **1927**, 551.
- method for determining acetic anhydride. E. L. Whitford, **1926**, 103.
- micro-Kjeldahl determination of nitrogen. D. D. Van Slyke, **1927**, 171.
- sugar method; Reducing power of different sugars for the ferricyanide reagent used in the —. J. A. Hawkins, **1929**, 749.
- Gastric** contents; Comparison of the electro-metric and colorimetric methods of determining the pH value of —. G. Kahn and J. Stokes, Junr., **1926**, 528.
- Gates**: Lead in paints for —. **1935**, 41.
- Gates Method** of proteolytic enzyme titration; Examination and application of —. A. Gilman and G. R. Cowgill, **1930**, 765.
- Gelatin**: Action of papain on the polarisation of —. Measurement of proteolytic activity. H. C. Gore, **1929**, 762.
- Behaviour of — towards colouring matters in wines. A. Kickton and F. Mayer, **1926**, 353.
- Blue mineral colouring matter present in "pure" —. A. L. Bacharach and G. N. Grinling, **1930**, 566.
- Emulsifying power of —. **1929**, 36.
- gel; Method of analysis for determining silver, chromate, etc., in —. E. B. Hughes, **1935**, 309.
- gels; Measurement of strength of —. L. H. Lampitt and M. E. G. Norris, **1934**, 577.
- in cream. O. A. Mendelssohn, **1930**, 567.
- in cultured buttermilk and cottage cheese; Detection of —. G. A. Richardson and N. P. Tarassuk, **1934**, 551.
- in ice cream; Determination of —. R. E. Remington and L. H. McRoberts, **1927**, 288.
- in paper; Action of ultra-violet light on —. H. A. Bromley, **1933**, 29.
- in soup-cubes; Chemical and spectrophotometric detection of —. H. Mohler, E. Helberg and F. Almsay, **1934**, 180.
- Jaffé-Folin reaction of hydrolysed —. H. Mohler and E. Helberg, **1934**, 829.

- Gelatin**—*continued*.
 labile sulphur in proteins and —; Determination of. S. E. Sheppard and J. H. Hudson, **1930**, 214.
 Nutritive deficiencies of —. H. D. Kruse, H. G. Day and E. V. McCollum, **1934**, 189.
 precipitation test for tannins. A. E. Jones, **1927**, 275.
 sulphur dioxide in —; Determination of. **1928**, 124.
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- Gels**: cellulosic — of the wheat grain; Colorimetric micro-reactions of. P. Bruère, **1931**, 66.
 Measurement of strength of gelatin —. L. H. Lampitt and M. E. G. Norris, **1934**, 577.
 Method of analysis for determining silver, chromate, etc., in gelatin —. E. B. Hughes, **1935**, 309.
- Gelsemium** alkaloid. **1932**, 313.
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- Genalkaloids**: Volumetric determination of —. **1931**, 818.
- General Medical Council**: Pharmacopoeia Commission. Reports of Sub-Committees. **1931**, 400.
 Report of the Cod-liver Oil Colour Test Sub-Committee. **1931**, 457.
 Reports of the Pharmacopoeia Committee. **1932**, 31.
- Germanium**: Powdered — containing nutshells. (Legal Notes), **1935**, 407.
- Gentiobiose** in the products of the commercial hydrolysis of corn starch. H. Berlin, **1926**, 635.
- Georgia** vegetables; Iodine content of —, and water as a factor in its variation. K. T. Holley, T. A. Pickett and W. L. Brown, **1935**, 622.
- Georgia Experimental Station**: Report for 1934–35. **1935**, 826.
- Geraniol** content of citronella oil; Determination of the total —. M. Van der Slik and J. Vermeulen, **1929**, 767.
- Geranium Oil**: Colour reaction of —. S. Sabetay, **1933**, 418.
- Gerber** milk-fat tubes; Aid to the reading of —. E. B. Grayson, **1934**, 29.
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- German Atomic Weights Commission**. **1928**, 159.
 Basic — for Science Students. M. L. Barker. (Review), **1933**, 571.
 food preservatives. **1934**, 348.
 Pharmacopoeia; Arsenic test of the —. G. Frerichs, **1929**, 56.
 rape oil; Composition of —. K. Täufel and C. Bauschinger, **1929**, 187.
- German-English** Chemical Terminology. A. King and H. Fromherz. (Review), **1934**, 782.
- Germanic Acid**: Volumetric determination of —. Study of certain hydrated forms of the acid and its salt. A. Tchakirian, **1928**, 559.
- Germanium**: Arc-spectrographic detection and determination of —. J. Papish, F. M. Brewer and D. A. Holt, **1928**, 113.
 Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.
 Determination of —. J. H. Müller and A. Eisner, **1932**, 408.
 in presence of arsenic; Detection of small quantities of —. S. A. Coase, **1934**, 747; Determination of. S. A. Coase, **1934**, 462.
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 Separation of arsenic and —. H. J. Abrahams and J. H. Müller, **1932**, 194.
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- Germanium Tetrachloride**: Separation of arsenic trichloride and —. E. R. Allison and J. H. Müller, **1932**, 670.
- Germany**: Preservative regulations in —. **1928**, 541.
- Germicidal** efficiency of sodium hydroxide, sodium carbonate and trisodium phosphate at the same hydrogen ion concentration. M. Levine, E. E. Petersen and J. G. Buchanan, **1928**, 170.
 powers and capillary activities of certain essential oils. S. Rideal, E. K. Rideal and A. Sciver, **1928**, 553.
 values of Australian essential oils and their pure constituents. **1927**, 295.
- Germination**: Age of wheat determined from temperature of —. O. Munerati, **1926**, 261.
- Gesellschaft Deutscher Metallhütten und Bergleute**: Mitteilungen des Chemiker-Fachausschusses der —. Vols. I and II. (Review), **1926**, 324.
- Gesteinanalyse**: Tabellen zur Berechnung von —. H. v. Philipsborn, **1933**, 429. *See also* list of Errata.
- Ghee** (Butter fat): N. N. Godbole and Sadgopal. **1931**, 624.
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- Gibraltar**: Report of the City Analyst and Bacteriologist for the year 1926. A. G. Holborow, **1928**, 36; for 1927, **1929**, 592; for 1930, **1931**, 656; for 1931, **1933**, 33; for 1932, **1933**, 533; for 1933, **1934**, 689; for 1934, **1935**, 817.
- Gilchrist** fusion process of determining iron in iridium. **1926**, 392.
- Gillespie** approximate method of determining hydrogen ion concentration; Modification of —. J. McCrae, **1926**, 287.
- Gin**: Strength of — in Jersey. **1935**, 405.
- Gingelly** seeds in raspberry jam. (Legal Notes), **1931**, 809.

- Ginger**: Adulteration of ground ——. 1927, 531.
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 "paralysis" (tri-ortho-cresyl phosphate poisoning). Kidd and Langworthy, 1931, 474; 1933, 710.
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- Ginger Brandy**: Non-alcoholic products sold as ——. (Legal Notes), 1929, 288.
- Ginger Wine** essence. 1933, 343.
- Gingerbread**: Honey and ——. C. I. Kruisheer, 1930, 200.
- Ginkgo Biloba**: Chemical constituents of the fruit of ——. J. Kawamura, 1928, 659.
- Ginkgolic Acid**: 1928, 659.
- Ginnol**: 1928, 660.
- Gitoxigenin** and isogitoxigenin. The digitalis glucosides. W. A. Jacobs and E. L. Gustus, 1929, 425.
- Glacial Acetic Acid**: Analysis of ——. H. D. Richmond and E. H. England, 1926, 283.
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- Gland** extracts; Colorimetric determination of adrenaline in suprarenal ——. J. H. Barker, C. J. Eastland and N. Evers, 1933, 232.
 pituitary-; Aqueous extract of the posterior lobe of the ——. 1926, 196.
 thyroid-; Method for determining iodine in ——. F. A. Pickworth, 1926, 92.
- Glands**: Extracts of parathyroid —— containing an anti-growth factor. I. C. J. Eastland, N. Evers and J. H. Thompson, 1933, 234.
 Iodine content of ——. 1934, 41.
 suprarenal ——; Determination of adrenalin in the. M. Paget and P. Lohéac, 1928, 545.
 suprarenal ——; Isolation of carotene from. O. Bailly and R. Netter, 1932, 52.
- Glass** and glass-making in ancient Egypt. 1933, 657.
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- Glass**—continued.
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- Glasses**: Loss of ultra-violet transparency in ——. S. English, 1930, 225.
- Glassware**: B.S.I. specifications for distillation flasks and ground-glass joints. 1935, 42.
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 Tests on volumetric ——. National Physical Laboratory Report. 1934, 550.
 used in dairy chemistry; Tests on volumetric ——. (National Physical Laboratory Report), 1926, 249.
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- Glauber's Salt**: 1930, 389.
- Glaze**: Lead in red ——. A. Gronover and E. Wohnlich, 1929, 552.
- Glazed** earthenware containers; Use of ——. C. J. Stock, 1926, 82.
- Gladiin**: Preparation, solubility and specific rotation of wheat ——. D. B. Dill and C. L. Alsborg, 1926, 44.
- Gladiins** of rye and wheat. H. Kühn, 1933, 355.
- Globe Fish** poisoning. 1926, 476.
- Globulin**: Combined determination of albumin and ——. G. M. Moir, 1931, 228.
 crystalline —— in banana seeds; Occurrence of. G. L. Keenan and J. D. Wildman, 1930, 637.
 in biological fluids; Analysis of —— by the quantitative precipitin method. E. Goetsch and F. E. Kendall, 1935, 422.
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- Gloriosa Superba** poisoning. 1935, 759.
- Glossop**: Appointment of H. Heap as Public Analyst for Borough of ——. 1933, 155.
- Glucides**: laevulose in ——; Simple test for. S. Tashiro and E. B. Tietz, 1930, 520.
- α -Glucosheptulitol**: Identification and biological oxidation of ——. Y. Khouvine and G. Hitzberg, 1933, 172.
- Gluconic Acid**: Detection and determination of ——. W. Diemair, B. Bleyer and L. Schneider, 1935, 480.
- Glucoreductone** for the standardisation of 2, 6-dichlorophenolindophenol solutions used for determining ascorbic acid (vitamin C). Z. I. Kertesz, 1934, 427.
- Glucosamine**: Colorimetric method for determining ——. L. A. Elson and W. T. J. Morgan, 1934, 357.
- Glucosan**: Determination of ——. H. J. Deuel, Junr., S. S. Waddell and J. A. Mandel, 1926, 468.
- Glucose**: Acijimetric method for determining —— by means of Fehling's solution. M. D. Hadjieff, 1928, 604.

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- Alcoholic fermentation of fructose, mannose and — mixtures. H. Sobotka and M. Reiner, **1930**, 712.
- Alcoholic fermentation of mixtures of fructose and — by brewer's and Sauterne yeasts. R. H. Hopkins, **1931**, 463.
- Determination of — by alkaline copper solutions in the presence of hydrocyanic acid. H. Herissey and A. Chalmers, **1929**, 421.
- Effect of — on the condensation of formaldehyde. I. Determination of urinary sugar by this principle. F. B. Kingsbury, **1928**, 45.
- in human blood; Mode of distribution of. E. M. MacKay, **1932**, 729.
- in milk; Indications of —. C. H. Whitnah, **1931**, 184.
- in normal urine. A. Hassan, **1929**, 50.
- in presence of phosphate buffers; Determination of —. M. B. Visscher, **1926**, 521.
- in urine; Practical method for the simultaneous determination of lactose and —. I. S. Kleiner and H. Tauber, **1933**, 413.
- Loss of — from dried peas on soaking. W. M. Clifford, **1932**, 253.
- Microchemical determination of —. Ch. Cimernan and P. Wenger, **1932**, 337. See also list of Errata.
- Micro-organisms used in analysis of —. **1934**, 54.
- retardation of invertase action; Fructose and —. J. M. Nelson and R. S. Anderson, **1926**, 588.
- Selective fermentation of — by brewer's yeast. R. H. Hopkins, **1928**, 668; E. R. Dawson, **1932**, 536.
- solutions; Optical rotation of insulin and — in contact with muscle tissue *in vitro*. H. H. Beard and V. Jersey, **1926**, 640.
- syrup; Sulphites in —. **1928**, 133.
- syrup; Use of — in the titration of borax. L. S. Weatherby and H. H. Chesny, **1926**, 538.
- U.S. Food Inspection Decision No. 201. **1926**, 581.
- Glucosides**: Oxidation of methylated —. H. Sobotka, **1926**, 522.
- Glucosides**: cardiac —; Examination of samples of. **1930**, 196.
- cyanogenetic —; Determination of. L. R. Bishop, **1928**, 53.
- Definition of —. **1928**, 41.
- Digitalis —. III, Gitoxigenin and isogitoxigenin. W. A. Jacobs and E. L. Gustus, **1929**, 425.
- in plant tissues; Detection of —. A. Niehammer, **1932**, 62.
- Micro-chemical examination of —. L. Rosenthaler, **1932**, 63.
- of *Strophanthus Eminii*. **1933**, 165.
- Quantitative colorimetric determination of *digitalis* — by means of Baljet's reagent. J. A. C. Van Pinxteren, **1932**, 179.
- Use of certain carbohydrates and — in the differentiation of members of the salmonella group of bacilli. F. Wokos and J. H. Irwin, **1927**, 604.
- Glue**: dextrin in —; Determination of. J. Alexander, **1933**, 494.
- liquors; Determination of the concentration of dilute — by means of the immersion refractometer. A. C. Hart, **1928**, 615.
- water content of liquid —; Determination of. W. A. Kingman, **1926**, 212.
- Glutaconic Aldehyde**: Spot test for primary aromatic amines with —. **1935**, 343.
- Glutamic Acid**: Sublimation temperature of —. **1933**, 117.
- Glutamine** in presence of asparagine; Determination of. A. C. Chibnall and R. G. Westall, **1932**, 393.
- Glutathione**: Colorimetric determination of cystine and —. G. Hunter and B. A. Eagles, **1927**, 292.
- Glyoxalase as a reagent for the quantitative micro-estimation of —. G. E. Woodward, **1935**, 423.
- in the corpuscles of mammalian blood; Presence of —. H. F. Holden, **1926**, 95.
- Quantitative determination of —. L. Binet and G. Weller, **1934**, 423.
- Study of —. I, Preparation in crystalline form and identification. E. C. Kendall, B. F. McKenzie and H. L. Mason, **1930**, 54.
- Gluten** bread. **1933**, 286.
- flour; Standard for —. **1933**, 286.
- washing of — from flour; Some observations on the. D. W. Kent-Jones and C. W. Herd, **1927**, 439.
- Glutenin**: Nature and identity of wheat —. M. J. Blish and R. M. Sandstedt, **1930**, 145.
- Glutin**: Comparative characterisation of chondrin and —. M. A. Rakusin and K. Braudo, **1927**, 240.
- Glyceraldehyde**: Methone as reagent for —. **1929**, 486.
- Glyceride Structure** of beef tallow. A. Banks and T. P. Hilditch, **1931**, 816.
- of butter-fats. T. P. Hilditch and J. J. Sleightholme, **1931**, 541.
- of the seed fat of *Myristica malabarica*. G. Colin, **1933**, 351.
- of vegetable seed fats; Regularities in the —. G. Collin and T. P. Hilditch, **1930**, 291.
- Progressive hydrogenation as an aid in the study of —. A. Banks, H. K. Dean and T. P. Hilditch, **1935**, 328.
- Glycerides**: Azelao- — obtained during the oxidation of some simple synthetic and natural glycerides. T. P. Hilditch and S. A. Saleto, **1933**, 485.
- Estimation of fully-saturated — as an aid in the analysis of fats. B. C. Christian and T. P. Hilditch, **1930**, 75.
- fatty acids present as — in elasmobranch oils; Composition of. T. P. Hilditch and A. Houlbrooke, **1928**, 246.
- in hen body-fats; Compound —. T. P. Hilditch and W. J. Stainsby, **1935**, 559.
- in marine animal oils; Some characteristic features of —. T. P. Hilditch, **1935**, 568.
- of Borneo (illipé) tallow; Component —. T. P. Hilditch and J. Priestman, **1930**, 396.

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- of butter-fat; Distribution of the volatile acid groups among the ——. Composition of Irish butter. P. Arup, **1928**, 641.
- of cacao butter; Component ——. C. H. Lea, **1929**, 242.
- of chaulmoogra oil. A. Bömer and H. Engel, **1929**, 423.
- of cod-liver and certain other fish-liver oils; Composition of the mixed fatty acids present in ——. K. D. Guha, T. P. Hilditch and J. A. Lovern, **1930**, 456.
- of coffee-bean oil; Composition of ——. R. O. Bengis and R. J. Anderson, **1934**, 494.
- of fats and oils. XII, — of lauric and myristic acids. A. Bömer and K. Ebach, **1928**, 603.
- of Indian ghee; Fatty acids and component ——. R. Bhattacharya and T. P. Hilditch, **1931**, 161.
- of mutton tallow; Component ——. G. Collin, T. P. Hilditch and C. H. Lea, **1929**, 243.
- of partly hydrogenated fats; Component ——. T. P. Hilditch and E. C. Jones, **1932**, 661.
- of partly hydrogenated rape oil; Component fatty acids of ——. T. P. Hilditch and H. Paul, **1935**, 839.
- of piqui-a fats; Component ——. T. P. Hilditch and J. G. Rigg, **1935**, 417.
- of rape oil. K. Täufel and C. Bauschinger, **1929**, 187.
- of solid seed fats. I, T. P. Hilditch and S. A. Saletore, **1932**, 113; II, Composition of some Malayan vegetable fats. T. P. Hilditch and W. J. Stainsby, **1934**, 632.
- of some New Zealand butters; The fatty acids and component ——. T. P. Hilditch and E. E. Jones, **1929**, 75. Erratum, **1929**, 152.
- of some oleo oils. A. Banks and T. P. Hilditch, **1932**, 388.
- of some palm oils of high free acidity. T. P. Hilditch and E. E. Jones, **1931**, 463.
- of some palm oils of low free acidity. T. P. Hilditch and E. E. Jones, **1930**, 701.
- of stillingia (Chinese vegetable) tallow. T. P. Hilditch and J. Priestman, **1930**, 761.
- of the milk-fat of Indian camels; Component fatty acids and ——. D. R. Dhingra, **1934**, 554.
- Rate of formation of fully-saturated — during hydrogenation of different natural fats. T. P. Hilditch and H. Paul, **1935**, 828.
- Substitution of — by the corresponding fatty acids in a balanced ration. R. Lecoq, **1935**, 562.
- Glycerin** as reagent for mercury. M. Stschigol, **1934**, 433.
- Colour reaction for —. K. Täufel and H. Thaler, **1934**, 118.
- egg yolk preserved with —; Analysis of. T. Cockburn and M. McF. Love, **1927**, 143.
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- method for determining free lime; Modification of —. G. E. Bessey, **1930**, 651.
- Microchemical tests for —. H. Alber, **1930**, 295.
- Specific gravity of —. L. W. Bosart and A. O. Snoddy, **1929**, 186.
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- Tables for specific gravity and per cent. of —. L. W. Bosart and A. O. Snoddy, **1927**, 434.
- triethanolamine in presence of —; Determination of. **1935**, 79.
- Glycerophosphates**: Analysis and composition of commercial —. G. J. W. Ferrey, **1926**, 526.
- α -**Glycerophosphates**: New method of determining —. P. Fleury and R. Paris, **1934**, 118.
- Glycerophosphoric Acid**: Comparative action of periodic acid on α - and β - —. P. Fleury and R. Paris, **1934**, 118.
- Glycine**: Sublimation temperature of —. **1933**, 117.
- Glycogen** and maize starch. **1927**, 541.
- Determination of —. C. A. Good, H. Kramer and M. Somogyi, **1933**, 353; M. Sahyun, **1934**, 189.
- Experimental work on —. **1926**, 143.
- in fish muscle. **1934**, 699.
- in tissues; Determination of —. A. E. Osterberg, **1930**, 145; M. Sahyun, **1932**, 51.
- Solubility of —. M. Kerly, **1930**, 400.
- Glycol**: Precipitation of — by metallic hydroxides in alkaline media. **1932**, 783.
- Glycolaldehyde**: Methone as reagent for —. **1929**, 486.
- Glycols**: Glycerol and the —. (Review), J. W. Lawrie, **1929**, 128.
- Glycosides**: (Review), E. F. and K. F. Armstrong, **1932**, 481.
- Glycuronic Acid** in wines from mouldy or rotten vintages. D. Chouchak, **1928**, 227.
- Glyoxalase** as a reagent for the quantitative micro-estimation of glutathione. G. E. Woodward, **1935**, 423.
- Glyoxaldehyde**: Methone as reagent for —. **1929**, 486.
- Glyoxylic Acid**: Detection of —. **1935**, 189.
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- Glyzines**: Commercial — (ammonium glycyrrhizates). A. Bonis, 1930, 140.
- Goat Fur**: Characteristics of —. 1929, 696.
- Goats' Milk**: 1929, 593; 1931, 656.
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- Butter from — in Greece**. T. G. Stathopoulos, 1933, 762.
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- Goitre**: Incidence of —. 1932, 312.
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- Gold**: Atomic weight of —. 1928, 160; 1929, 296; 1934, 547.
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Detection and determination of — by means of carbon monoxide. R. N. Cozsteanu, 1935, 779.
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- Gold-Mines**: Silicosis and its incidence in —. Y. V. S. Iyer, 1934, 403.
- Golden Syrup**: "Crystal" syrup sold as —. (Legal Notes), 1930, 506.
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- Goose Fat**: Fatty acids of —. 1932, 112.
- Gooseberries**: Analyses of —. L. H. Lampitt and E. B. Hughes, 1928, 33.
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- Gooseberry juice**; Refractometric studies on —. 1931, 461.
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- Gorgonzola Cheese**: Acidity of —. W. Partridge, 1932, 771.
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- Gorli Oil** as substitute for chaulmoogra oil. 1928, 604.
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- Gorlic Acid**: 1928, 605.
- Gossypol**: Studies on —. I, Preparation, purification and some properties of —, the toxic principle of cottonseed. E. P. Clark, 1928, 107. II, Nature of Carruth's D —. 1928, 170. IV, Apogossypol, 1928, 453.
- d-Gossypol**: Relation of — to the toxicity of some cottonseed products. W. D. Gallup, 1928, 233.
- Government Analysts' Reports**: See Bihar and Orissa, British Guiana, Canada, Ceylon, Cyprus, Federated Malay States, Fiji, Gibraltar, Hong Kong, Madras, New South Wales, New Zealand, Palestine, Queensland, Siam, Straits Settlements, Trinidad and Tobago, United Provinces of Agra and Oudh, Western Australia.
- Government Chemist**: Fee of —. (Parliamentary Notes), 1928, 541.
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- Government Laboratory**: Report of the Government Chemist upon the work of the — for the year ending March 31st, 1926, 1926, 517; 1927, 1927, 643; 1928, 1928, 593; 1929, 1929, 665; 1930, 1930, 689; 1931, 1931, 809; 1932, 1933, 35; 1933, 1933, 693; 1934, 1934, 822.
- Gowing-Scopes Method** for citric acid. 1933, 330.
- Grain coffee** and malt coffee; Maltol reaction for distinguishing between —. T. Merl, 1927, 93.
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- Grains**: Effect of storage on the antirachitic factor of cod-liver oil when mixed with ground —. E. B. Hart, H. Steenbock and S. Lepkovsky, 1926, 94.
- Grape flavour**; Saccharin in —. (Legal Notes), 1927, 642.
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juice; Colorimetric determination of tartaric acid in —. 1932, 587.
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juice; Organic acids of —. (Presence of glyoxylic acid.) L. Semichon and M. Flanzly, 1933, 552.
must and wine treated with insecticides containing lead; Lead content of —. E. Kielhöfer, 1930, 151.
must; Influence of sugar on the determination of ammonia in —. J. Ventre and E. Bouffard, 1926, 352, 353.
pectins and their influence on wines. L. Semichon and Flanzly, 1926, 523.
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wine; Detection of fruit wine in —. T. Rottgen, 1927, 39; K. Müller, E. Vogt and O. Raesch, 1929, 599; M. Rüdiger and W. Diemair, 1929, 599; B. Bleyer and W. Diemair, 1929, 603.

- Grape**—*continued*.
 wine; Detection of fruit wine in — by the sorbitol process. A. Röbling and J. Richarz, 1930, 201; G. Reif, 1930, 335; M. Klostermann and W. Fachmann, 1931, 405.
- Grape Fruit**: Artificially coloured —. (Legal Notes), 1926, 186.
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 juice; Vitamin C content of frozen —. L. W. Conn and A. H. Johnson, 1933, 235.
 peel oil; Florida —. E. K. Nelson and H. H. Mottern, 1934, 644.
 Pigments of pink —, *Citrus grandis* (L., Osbeck). M. B. Matlack, 1935, 622.
 rind; Vitamins and other constituents of —. S. G. Willimott and F. Wokes, 1927, 241.
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 wine; Vitamin content of grapes and —. A. Merjanian, 1927, 96.
- Grapes**: Bacteriological examination of —. 1933, 534.
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 Vitamin content of grape wines and —. A. Merjanian, 1927, 96.
 volatile flavour in grape juices and —; Distribution of. J. W. Sale and J. B. Wilson, 1927, 39.
 Wastage in imported —. 1930, 634.
 white wine made from red —; Identification of. G. Graff, 1932, 660.
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- Grapeseed Oil**: L. Margaillan, 1927, 558; E. André and H. Canal, 1928, 544.
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- Graphite** in pig iron; Determination of combined carbon and —. W. A. Burford and W. Bader, 1927, 104.
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- Grass**: Composition of — as influenced by cutting. 1930, 390.
- Grasses**: aluminium in pasture —; Determination of. F. B. Shorland, 1934, 565.
- Gravimetric** analysis with the Kuhlmann micro-balance. (1) Drying of precipitates. (2) Determination of aluminium. A. Pichler, 1930, 298.
 micro-analysis; New method of inorganic —. I, Determination of small quantities of gold in presence of large amounts of iron, lead and copper. J. Donau, 1930, 598.
- Gravy Browning**: 1932, 456.
- Grease** stains removed by pyridine. 1932, 478.
- Greases**: carbon in graphited cup —; Determination of. F. Heathcoat, 1934, 28.
- Great Herring Oil**: Composition of the saturated fatty acids of Japanese —. S. Ueno and H. Ikuta, 1930, 409.
- Green-B**: Direct —. A new sensitive reagent for copper. P. Sisley and David, 1931, 132.
- Green Butters**: Tests for detecting —. 1927, 453.
- Green Gas** from coke ovens. 1933, 535.
- Greengage** pulp; Composition of —. 1927, 352.
- Greengages**: Analyses of —. L. H. Lampitt and E. B. Hughes, 1928, 33.
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- Gregory Powder**: 1935, 243; L. F. Liversseege, 1926, 295.
- Grey Powder**: 1928, 648.
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- Grignard Reagent**—triphenylmagnesium bromide. 1931, 683.
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- Grinding**: Effects of fine — upon flour. C. L. Alsborg and E. P. Griffing, 1926, 199.
- Grit** emission from chimneys. 1933, 535.
- Grossfeld's** modification of Mohler's test for benzoic acid; Investigation of —. E. T. Illing, 1932, 224.
- Ground Almonds**: See Almonds.
- Ground Ginger**: Volatile oil in —. 1934, 617.
- Ground-glass** joints; B.S.I. specification for —. 1935, 42.
- Ground-nut** cake; Castor bean in —. 1935, 244.
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- Group-specific** substances in forensic medicine. R. B. Lloyd, 1932, 262.
- Growth**-experiments on diets rich in fat. H. Levine and A. H. Smith, 1927, 293.
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 on a synthetic ration containing small amounts of sodium. J. L. St. John, 1928, 348.
 promoting and antineuritic substances; Differentiation between the water-soluble —. S. M. Hauge and C. W. Carrick, 1926, 586.
 -promoting factor; Relation of vitamin B to the — for a *Streptothrix*. R. A. Peters, H. W. Kinnersley, J. Orr-Ewing and V. Reader, 1928, 394.
 -promoting factor with vitamin B₁; Question of the identity of a bacterial —. J. G. Davis and J. Golding, 1931, 56.
 -promoting properties (vitamin B complex) of the concentrated water-soluble portion of milk. G. C. Supplee, O. J. Kahlenberg and G. E. Flanigan, 1932, 53.
 -promoting property of irradiated fat in the diet, of direct irradiation and of cod-liver oil. H. Goldblatt and A. R. Moritz, 1927, 97.
 -promoting vitamin B; New differentiation between the antineuritic vitamin B and the purely —. H. M. Evans and G. O. Burr, 1928, 349.
- Gruyère Cheese**: Percentage of fat in —. P. Sajous, 1930, 701.
- Guaiacol**: New and specific tests for —. 1927, 337.
- Guaiacol Carbonate**: Determination of —. L. H. Chernoff, 1929, 756.
- Guanidine** bases in blood; Colorimetric determination of —. J. J. Pfiffner and V. C. Myers, 1930, 521.
 bases in urine; Determination of the —. C. J. Weber, 1928, 502.
- Guanidine Carbonate** as a means of separating beryllium from aluminium. A. Jilek and J. Kota, 1932, 406; from other elements, A. Jilek and J. Kota, 1932, 799.

- Guanine Nucleotide**: Isolation of cytosine nucleotide and — from tea leaves. H. O. Calvery, 1927, 354.
- Guano deposit**. 1926, 246.
- Guarana**: caffeine and theobromine in —; Existence and distribution of. G. Bertrand and P. de B. Carneiro, 1932, 388.
- Guernet's Reaction**: Detection of cocaine by —. Guigues, 1928, 500.
- "Gulf Sickness"** and the arsenic theory. A. Juckenack and A. Brining, 1926, 531.
- Gum** from cherry trees; Composition of —. C. L. Butler and L. H. Cretcher, 1929, 42. in petrol; Determination of —. M. J. Mulligan, W. G. Lovell and T. A. Boyd, 1932, 796.
- Kauri —. 1928, 289.
- Gum Arabic**: Composition of —. C. L. Butler and L. H. Cretcher, 1929, 477. Identification of —. I. C. Ritsema, 1935, 259. Nature of — and biochemical classification of the gums. A. G. Norman, 1929, 549. Quantitative separation of dextrans and —. A. Hamy, 1929, 253.
- Gum Benzoin**: alcoholic extractive in —; Determination of. T. N. Bennett and C. F. Bickford, 1928, 546.
- Gum Tragacanth**: Tragacanthin—the soluble constituent of —. A. G. Norman, 1931, 469.
- Gum-spirits of Turpentine**: Fractionation of American — and evaluation of its pinene content by optical means. S. Palkin, 1932, 331.
- Gums**: Chemical constitution of —. I. Nature of gum arabic and biochemical classification of the —. A. G. Norman, 1929, 549. Microbiology of Cellulose, Hemicellulose, Pectin and —. (Review), A. C. Thaysen and H. J. Bunker, 1927, 500. Studies on the —. II, Tragacanthin—the soluble constituent of gum tragacanth. A. G. Norman, 1931, 469.
- Gun wads**; Cloth as —. 1935, 472.
- Gunning methods** for determining total nitrogen in plants and soil extracts; Modification of —. E. R. Ranker, 1927, 555.
- Gunpowder carbon** in the tissues; Identification of —. 1935, 761.
- Gutta-Percha**: hydrocarbon in raw rubber, —, and allied substances; Determination of. A. R. Kemp, 1927, 362.
- Gutzzeit Test** for arsenic; Accuracy of the —. J. R. Neller, 1929, 618. Apparatus for the —. H. D. Richmond, 1928, 90; Modification of, A. J. Lindsey, 1930, 503. cap for holding mercuric chloride papers. T. J. Ward, 1930, 630. Holder for mercuric chloride paper in —. G. H. Davis, 1931, 30. Mercuric bromide paper for use in —. G. Kemmerer and H. H. Schrenk, 1926, 478. Method of applying the —. C. H. Cribb, 1927, 701. Modification of —. C. Lockemann and B. von Bülow, 1933, 780.
- Gutzzeit Test—continued.**
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- Gynolactose**: A new sugar of human milk. M. Polonovski and A. Lespagnol, 1931, 539.
- Gypsum** used in ancient Egypt. 1926, 441.

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- Hackney**: Appointment of D. T. Lucke as Additional Public Analyst for Metropolitan Borough of —. 1930, 277.
- Haddock**: Identification of —. 1935, 69, 70. Liver oil of Norway —. T. Thorbjarnarson, 1935, 525. Low-temperature preservation of —. 1931, 532. muscles; Influence of freezing temperature on —. G. A. Reay, 1935, 192. Nutritive value of herring and —. M. C. Kik and E. V. McCollum, 1928, 606.
- Haemagglutinins**: Plant — with special reference to a preparation from the navy bean. V. R. Goddard and L. B. Mendel, 1929, 429.
- Haematology**: Recent Advances in —. (Review), A. Piney, 1929, 691.
- Haematoporphyrin**: Spectrum of — and its significance in the recognition of traces of old blood-stains. M. Wagenaar, 1934, 499.
- Haemin** crystals; Reagent facilitating the formation of — from blood. G. Bertrand, 1932, 664.
- Haemoglobin** building; Storage of manganese and copper in the animal body and its influence on —. R. W. Titus and J. S. Hughes, 1929, 609. Carbon monoxide poisoning of bacteria in absence of —. P. F. Frankland, 1927, 295. in blood of fish, eels and turtles. C. M. McCay, 1931, 263. in blood; Purification of benzidine, and an improved reagent for —. F. C. Bing, 1932, 329. in muscle; Determination of —. 1935, 45. Preparation of nitric oxide —. H. Hartridge, 1931, 571. regeneration; Rôle of copper in — and in reproduction. H. L. Keil and V. E. Nelson, 1931, 755. Spectrographic study of carbon monoxide —. A. K. Boor and A. Bachem, 1930, 405.
- Haemolymph** of the silkworm; Colorimetric determination of tryptophane in —. L. Mamoli, 1934, 50.
- Haemolysins** of fungi. V. Pettinari, 1926, 260.
- Haemolysis**: Corn cockle in flour determined by —. F. S. Okoloff, 1928, 390. Quantitative interdependence of sensitiser and complement in —. R. R. Hyde and E. I. Parsons, 1927, 167.

- Haemolytic** properties of micro-organisms belonging to the paratyphoid group. C. P. Eliot and W. W. Ford, **1931**, 58.
- Hafnium**: Atomic weight of ——. **1928**, 160; **1929**, 296; **1934**, 547.
Attempted separation of — and zirconium by ionic migration. J. Kendall and W. West, **1926**, 647.
separation of titanium from zirconium and —; New method for. A. R. Powell and W. R. Schoeller, **1930**, 605.
separation of zirconium and — from tantalum and niobium; New method for. W. R. Schoeller and E. F. Waterhouse, **1928**, 515.
Separation of zirconium and — from titanium, cerium and thorium. L. Moser and R. Lessing, **1928**, 458.
- Hagedorn and Jensen Method**: Application of — to the determination of larger quantities of reducing sugars. C. S. Hanes, **1929**, 349.
- Hagedorn-Jensen-Hanes** ferricyanide method for determining reducing sugars; Modification of —. A. C. Hulme and R. Narain, **1931**, 815.
- Hair**: dye in —; Identification of. H. Meyer, **1932**, 333.
Cholesterol content of wool, feathers and —. H. C. Eckstein, **1927**, 422.
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scale structure of —; Method for revealing. J. Manby, **1932**, 201.
- Hair Dyes**: Composition of —. **1928**, 40.
Detection of *p*-phenylenediamine and other diamines in —. C. Griebel and F. Weiss, **1933**, 417.
Molecular compounds of polyvalent phenols with aromatic diamines used as —. C. Naegeli and H. Kaltman, **1933**, 777.
New derivatives of *p*-phenylenediamine and their value as —. H. Meyer, **1929**, 675.
p-phenylenediamine (in presence of other diamines) in —; Detection of. C. Griebel and F. Weiss, **1934**, 197.
- Hairdressing** purposes; Suitability of water softener for —. (Legal Notes), **1932**, 96.
- Hairs**: cotton —; Microscopical examination of. T. B. Bright, **1926**, 593.
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- Hake**: Identification of —. **1935**, 69, 70.
- Haldane** general air analysis apparatus; Modification of —. R. C. Frederick, **1927**, 340.
- Halibut Liver Oil**: M. Tsujimoto, **1928**, 291. Erratum, **1928**, 344.
as a source of vitamin A. J. A. Lovern, **1932**, 468.
Characteristics of —. N. Evers and W. Smith, **1935**, 418.
- Halibut-liver Oils**: Grouping of —. R. T. M. Haines and J. C. Drummond, **1934**, 358.
Its vitamin potency, physical constants and tolerance. A. D. Emmett and O. D. Bird, **1932**, 732.
Properties of —. R. T. M. Haines and J. C. Drummond, **1933**, 356.
- Halibut-liver Oils**—*continued*.
Reaction of — with antimony trichloride. F. Ender, **1932**, 789.
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- Halides**: chlorides in presence of other —; Detection of. W. Brash, **1933**, 686.
Dichloro-fluorescein as adsorption indicator for the volumetric determination of —. K. Bambach and T. H. Rider, **1935**, 493.
halogen in insoluble inorganic —; Rapid method for determining. R. H. Klein, **1930**, 192.
in presence of thiocyanate; Identification of —. G. B. and L. K. Heisig, **1935**, 639.
iodide in presence of other —; New method for colorimetric determination of small quantities of. A. C. Bose and K. N. Bagchi, **1935**, 80.
New indicators for the titration of —; **1930**, 614.
of limited or reversible ionisation; Use of adsorption indicators in titrations of —. A. J. Berry, **1932**, 511.
Reactions of rubber hydrocarbons with metallic —. H. A. Bruson, L. B. Sebrell and W. C. Calvert, **1927**, 728.
Separation of selenocyanate from —. G. Spacu and V. Armeanu, **1933**, 114.
silver in presence of cyanides and —; Volumetric method for determining. H. Baines, **1928**, 678.
- Haloform** reaction. XIV, Improved iodoform test. R. C. Fuson and C. W. Tullock, **1934**, 769.
- Halogen** adsorption of oils and fats; Differential —. J. W. Croxford, **1929**, 445.
adsorption of oils; Oil bromide films and their use in determining —. H. Toms, **1928**, 69.
addition to unsaturated fatty acids. Partial —. β -Elaeostearic acid glyceride and wood oil. H. P. Kaufmann and C. Lutenberg, **1929**, 304.
compounds; Determination of —. J. J. Thompson and U. O. Oakdale, **1930**, 652.
in insoluble inorganic halides; Rapid method for determining —. R. H. Klein, **1930**, 192.
in organic compounds; Determination of —. C. F. van Duin, **1926**, 421.
salts; Effect of — on peptic digestion. W. M. Clifford, **1927**, 550.
titrations; Accuracy of argentometric —. I. M. Kolthoff and L. H. Van Berk, **1927**, 304.
values of aleurites oils. P. Levy, **1933**, 361.
- Halogens** in organic compounds; Determination of —. S. Sabetay and J. Bléger, **1930**, 713; by the sodamide method. F. Govaert, **1933**, 49; by the sodammonium method: Determination of fluorine. F. Govaert, **1933**, 107; Micro-determination of —. H. H. Willard and J. J. Thomson, **1930**, 529.
in therapeutic oxygen. **1935**, 581.
Iodimetric-determination of the —. P. L. Hibbard, **1926**, 538.
Micro-analytical* determination of sulphur and —. A. Réceci, **1926**, 647.

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- Separation of aryl and alkyl —. Q. Landis and H. J. Wichmann, **1931**, 61.
sulphur in organic compounds containing —; Micro-volumetric determination of. D. T. Gibson and T. H. Caulfield, **1935**, 522.
- Halophilic** micro-organisms; Examination for —. W. Clayton and W. E. Gibbs, **1927**, 395.
- Halphen Test**: Kapok oil and the —. H. P. Trevethick and W. H. Dickhart, **1931**, 670.
- Ham**: Cause of mould growth in —. **1927**, 541.
Chicken and — roll. (Legal Notes), **1926**, 515.
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marrow of fresh and cured —; Composition of. W. F. Schroeder and D. Edelman, **1926**, 249.
souring; Bacteriological study of —. E. A. Boyer, **1927**, 98.
- Hammersmith**: Appointment of F. W. Edwards as Additional Public Analyst for Metropolitan Borough of —. **1933**, 756; as Public Analyst for —. **1934**, 108.
Report of the Borough Analyst for — for the year 1934. F. W. Edwards, **1935**, 754.
- Han-Fang-Chi**: Alkaloids of —. K. K. Chen and A. L. Chen, **1935**, 483.
- Handwriting**: Experiments with —. R. Saudek, **1929**, 130.
Evidence of —. **1932**, 153.
- Hard-Woods**: Starch and related polysaccharides of certain —. I. Preparation and properties of oak and walnut starch. W. G. Campbell, **1935**, 572.
- Hardening** of oils by hydrogenation; Theory of the —. H. P. Kaufmann and E. Hansen-Schmidt, **1927**, 246.
- Hardness** in water; Determination of magnesia —. W. R. Atkin and D. Burton, **1927**, 654.
- Hare fur**; Characteristics of —. **1929**, 695.
- Harmaline**: Microchemical identification of —. J. F. H. Amelink, **1931**, 419.
- Harmine**: Microchemical identification of —. J. F. H. Amelink, **1931**, 419.
- Harrogate** Drinking Waters; Pharmacological Action of —. W. Bain, **1935**, 130.
North of England Section Summer Meeting at —. **1935**, 505.
- Hartridge** reversion spectroscopy as a means of determining percentage saturation of carbon monoxide in blood. R. C. Frederick, **1931**, 561.
- Hashish**: Beam's colour test for —. A. Lucas, **1933**, 602.
Physiological action of —. Wiechowski, **1926**, 643.
Traffic in —. **1932**, 100; **1934**, 753.
- Hassall, Dr. A. H.**: Crayon portrait of —. **1929**, 567.
- Hausmann Numbers** of proteins; Micro method for determining the —. K. V. Thimann, **1927**, 239.
- Hay**: Spontaneous combustion or ignition of —. C. A. Browne, **1930**, 64; F. R. Dodd, **1933**, 77.
- Haze**: Examination of —. **1928**, 495.
- Hazelnut Oil**: H. A. Schuette and C. Y. Chang, **1933**, 620.
- Head Oils** of the dolphin (*Delphinus delphis* Lin). H. Marcelet, **1926**, 473.
- Health**: Food and —. Introduction to the Study of Diet. (Review), A. B. Callow, **1928**, 681.
Individual —. Vol. I, E. Obermer, **1935**, 282.
Ministry of —. See **Ministry of Health**.
Public — Regulations. See **Public Health**.
- Health Salts**: **1932**, 457.
- Heat** and ultra-violet irradiation as means of differentiating vitamins B and G in yeast. C. Kennedy and L. S. Palmer, **1929**, 674.
Calorimeter for specific — determinations. **1930**, 512.
Effect of — on milk. IV, The iodine content. H. E. Magee and A. E. Glennie, **1928**, 290.
Effect of — on milk. (a) On the coagulability by rennet and (b) On the nitrogen, phosphorus and calcium contents. E. C. V. Mattick and H. S. Hallett, **1929**, 557.
Effect of light and — on the formation of vitamin A in plant tissues. K. H. Coward, **1927**, 355.
Effect of oxidation and — on the nutritive value of a protein. H. Goldblatt and A. R. Moritz, **1927**, 292.
insulators. (Food Investigation Report No. 35.) **1929**, 743.
penetration in processed foods; Protective tubes for thermo-couples for determining —. K. L. Ford and A. G. Osborne, **1928**, 180.
rays; Photography by means of — by Plotnikov's methods. L. Splait, **1930**, 224.
resistance curve: A new bacteriological test for pasteurised food. C. Dukes, **1930**, 14.
transmission between metal pipes and an air stream. **1933**, 403.
- Heather Honey**: Meaning of the term —. (Legal Notes), **1927**, 349.
- Heating** gas; Direct determination of nitrogen in lighting and —. W. Steuer, **1927**, 47.
value of coals in monel metal bombs; Determination of the —. J. C. Geniesse and E. J. Soop, **1926**, 110.
- Helch's Reaction** for pilocarpine. F. Bredebach, **1933**, 625.
- Helium**: Atomic weight of —. **1928**, 160, 289; **1929**, 295; **1934**, 547.
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obtained from monazite sand. **1935**, 614.
Solidification of —. W. H. Keesom, **1926**, 429.
State of aggregation of condensed —. W. H. Keesom, **1928**, 676.
- Helvella Esculenta**: New reaction of —. G. Reif, **1935**, 707.
- Hemicellulose**: Determination of — by oxidation with potassium dichromate. A. Jäger, **1932**, 587.
Microbiology of Cellulose, —, Pectin and Gums. (Review), A. C. Thaysen and H. J. Bunker, **1927**, 500.

- Hemp**: Indian — poisoning. 1926, 410.
resin; Physiological activity of — determined by a polarimetric method. M. N. Ghose and S. N. Bhattacharjee, 1935, 313.
- Hempel** gas analysis apparatus without absorption bulbs and its use in the examination of commercial oxygen. R. C. Frederick, 1927, 400.
- Hempseed Oil** and the elaidin test. 1934, 315.
- Hen** body fats. T. P. Hilditch, E. C. Jones and A. J. Rhead, 1934, 707.
body fats; Compound glycerides of —. T. P. Hilditch and W. J. Stainsby, 1935, 559.
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- Henna**: Identification of —. 1935, 796.
- Heparin**: Rennin coagulation of milk. Effect of —. J. B. Stone and C. L. Alsberg, 1928, 503.
- Herbs**: Microscopical examination of —. S. G. E. Stevens, 1934, 744.
Volatile oils determined in —. C. E. Sage and H. R. Fleck, 1934, 614.
- Herefordshire**: Appointment of R. H. Ellis as Agricultural Analyst for County of —. 1931, 398.
- Heroin**: Bromine as a reagent in determining —. 1931, 728.
Microchemical test for —. 1934, 137.
Micro-detection of —. 1930, 474.
Microscopic identification of —. C. D. Williams and C. C. Fulton, 1933, 766.
- Heron**: Fat of the Japanese grey night —. 1928, 543.
- Herring Oil**: Gadoleic acid identified in Japanese —. Y. Toyama and T. Tsuchiya, 1934, 352.
Highly unsaturated acids in —. Y. Toyama and T. Tsuchiya, 1934, 831.
- Herrings**: Ammoniacal nitrogen and amino nitrogen in —. 1932, 321.
Experimental work on —. 1935, 688.
Formaldehyde in —. 1927, 394.
Hydrogen peroxide in bottled —. 1935, 552.
hydroquinone in salt —; Determination of. 1934, 415.
Nutritive value of haddock and —. M. C. Kik and E. V. McCollum, 1928, 606.
Vitamin A content of —. A. Scheunert and M. Schieblich, 1935, 112.
- Hessian**: Excess of chlorine in rag flock from —. (Legal Notes), 1935, 469.
- Heteroxanthine** isolated from yeast. P. W. Wiardi and B. C. P. Jansen, 1934, 291.
- Heva Brasiliensis**: Seasonal variations in the composition of the latex of —. N. Rae, 1928, 330. Erratum, 1928, 487.
- Hexa-acetyl Sorbitol**: Conversion of dibenzal-sorbitol into —. H. Jahr, 1930, 452.
- Hexabromide** value of linseed oil; Determination of the —. F. Fritz, 1930, 461.
- Hexamethyl-Diamino-iso-Propanol-Diiodide**: See **Iodisan**.
- Hexamethylenetetramine** as means of precipitating iron, chromium and aluminium. L. Lehrmann, E. A. Kabat and H. Weisberg, 1933, 715.
- Hexamethylenetetramine**—*continued*.
as precipitant for tannin. A. T. Hough, 1931, 827.
Determination of —. R. Gros, 1935, 769.
Determination of — by precipitation of its double uranyl sulphate. M. Foucry, 1934, 714.
in fish-preserving pickle-liquor; Detection of small quantities of —. A. Van Druten, 1933, 37.
in pharmaceutical preparations; Determination of —. E. Schelek and V. Gervay, 1933, 621.
- Hexamine**: Determination of —. J. Rae, 1928, 167.
- Hexamine Cobaltic** compounds of vanadium. W. G. Parks and H. J. Prebluda, 1935, 778.
- Hexamminecobaltous Iodimercurate**: Determination of cobalt as —. A. Taurins, 1935, 638.
- Hexosamines** and mucoproteins. (Review), P. A. Levene, 1926, 57.
- Hexoses**: Comparative action of periodic acid on —. H. Hérissay, P. Fleury and M. Joly, 1934, 714.
Two new colour tests for —. J. H. Foulger, 1933, 99.
- Hexuronic Acid** as antiscorbutic factor; Specificity of —. L. J. Harris and S. N. Ray, 1933, 489.
content of foodstuffs; Microchemical method of determining —. T. W. Birch, L. J. Harris and S. N. Ray, 1933, 490.
preparations; Antiscorbutic activity of —. 1933, 489.
- Heyden Chloramine**: Behaviour of natural and artificial fruit essences towards —. A. Miermeister, 1931, 51.
- Hides**: Reddening of salted —. L. S. Stuart, R. W. Frey and L. H. James, 1934, 123.
- High-Pressure** Chemical Plant; Design and Construction of —. (Review), H. Tongue, 1934, 513.
- Hippuric Acid**: Determination of — and elimination of benzoic acid as — in rabbits. W. H. Griffiths, 1926, 528.
- Hirudin**: Rennin coagulation of milk. Effect of —. J. B. Stone and C. L. Alsberg, 1928, 503.
- Hispidus Strophanthin**: W. A. Jacobs and A. Hoffmann, 1928, 660.
- Histidine**: A useful compound of —. H. B. Vickery, 1927, 164.
Colorimetric determination of —. E. Jorpes, 1933, 102.
content of a number of proteins. M. T. Hanke, 1926, 204.
in protein; Quantitative determination of tyrosine and —. M. T. Hanke, 1926, 204.
Separation of arginine and —. H. B. Vickery and C. S. Leavenworth, 1926, 418.
Separation of cystine from —. H. B. Vickery and C. S. Leavenworth, 1929, 677.
- Histochemical** reaction of leithins. Iodophile reaction. M. Romieu, 1927, 421.
- Histology**: Elements of Vegetable —. (Review), C. W. Ballard, 1928, 66, 187.

- Histones**: The Protamines and ——. A. Kossel, (Review), **1929**, 71.
- Hogs**: body fat of ——. Influence of the ration upon the composition of. N. R. Ellis and H. S. Isbell, **1926**, 524.
- Hojer's Method** of determining the antiscorbutic value of foodstuffs. M. Goettsch, **1928**, 611.
- Holland**: Food control in ——. A. van Raalte and J. Straub, **1932**, 15.
- Hollow-ware**: Antimony in enamelled ——. F. C. Bullock, **1934**, 623; G. W. Monier-Williams, **1934**, 489.
enamelled ——. Specification for. J. H. Coste and D. C. Garratt, **1935**, 215.
- Holmium**: Atomic weight of ——. **1928**, 160; **1929**, 296; **1934**, 547.
- Homatropine**: Methyl red as indicator for ——. **1926**, 316.
Microchemical reactions of ——. M. Wagenaar, **1929**, 47.
- Home Office**: Report of Senior Medical Inspector of Factories and Workshops for 1933. J. C. Bridge, **1934**, 626.
- Homophthalic Acid**: Separation of phthalic acid and ——. H. G. Poole, **1928**, 399.
- Honey**: acidity (hydrogen ion concentration) of —— and artificial ——. Degree of. J. Fiehe and W. Kordatzki, **1928**, 290.
amino acids and related compounds in ——. Determination of. R. E. Lothrop and S. I. Gertler, **1933**, 350.
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and gingerbread. C. I. Kruisheer, **1930**, 200.
bees; Toxicity of pyrethrum vapours to ——. J. M. Ginsburg, **1930**, 596.
bees; Utilisation of carbohydrates by ——. E. F. Phillips, **1928**, 46.
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Bulgarian —— and beeswax. J. Zoneff, **1927**, 598.
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Californian ——. W. Bartels and A. Fauth, **1934**, 44.
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colloids; Some properties of —— and the removal of colloids from —— by bentonite. R. E. Lothrop and H. S. Paine, **1931**, 402.
Crystallisation of —— and heating of crystallised ——. H. W. de Boer, **1932**, 107.
Degree of pigmentation and its probable relationship to the mineral constituents of ——. H. A. Schuette and K. Remy, **1932**, 578.
Destruction of diastatic enzymes in —— on heating. H. W. Boer, **1931**, 55.
diastase. J. Fiehe and W. Kordatzki, **1928**, 388; J. Fiehe, **1931**, 540.
diastase content of ——; Simplified test for, and detection of foreign —— by pollen analysis. J. Prescher and E. Böhm, **1932**, 108.
diastase; Origin of ——. J. Fiehe, **1932**, 387.
Diastase value of ——. **1931**, 56.
- Honey—continued.**
Diastatic activity of ——. L. H. Lampitt, E. B. Hughes and H. S. Rooke, **1930**, 666.
Dutch regulations for ——. **1932**, 20.
Evaluation of —— on the basis of the diastase content. K. Braunsdorf, **1931**, 539.
Examination of ——. J. Fiehe and W. Kordatzki, **1929**, 748.
Fermentation in Canadian ——. **1932**, 36.
Fluorescence of —— in ultra-violet light. G. Orbán and J. Stitz, **1929**, 240.
Formol titration in the investigation of ——. A. Gottfried, **1929**, 670; H. A. Schuette and V. Templin, **1930**, 282.
Freezing-point depression of ——. J. Stitz and B. Szivárv, **1932**, 108.
Furfural and diastase in heated ——. L. H. Lampitt, E. B. Hughes and H. S. Rooke, **1929**, 381, 736.
heather ——. Meaning of the term. (Legal Notes), **1927**, 340.
"Honey and butter rock" without ——. (Legal Notes), **1932**, 520.
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Microscopical pollen analysis of ——. C. Griebel, **1930**, 583.
Optical rotation of ——. H. A. Caulkin, **1927**, 418.
orange ——. Specific test for. R. E. Lothrop, **1932**, 784.
Organic acids in ——. E. K. Nelson and H. H. Mottern, **1931**, 403.
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Ultra-violet absorption of ——. J. Stitz and J. Koczás, **1931**, 137.
Vitamin content of ——. E. Hoyle, **1929**, 356.
Vitamin content of honeycomb and ——. H. B. Kifer and H. E. Munse, **1930**, 55.
Yeasts found in fermenting ——. G. E. Marvin, W. H. Peterson, E. B. Fred and H. F. Wilson, **1931**, 760.
- Honeycomb**: Vitamin content of honey and ——. H. B. Kifer and H. E. Munse, **1930**, 55.
- Hong Kong**: Report of the Government Analyst for —— for the year 1929. E. R. Dovey, **1930**, 754; for 1932, V. C. Branson, **1934**, 283.

- Hong Kong Oil**: Properties of —. T. H. Barry, 1932, 85.
- Hoof Meal**: Determination of —. W. F. Sterling, 1929, 303.
- Hoolamite**: Composition of —. 1935, 582.
- Hoop Pine**: Distinction between woods of bunya pine and —. W. E. Cohen, 1933, 636.
- Hops**: Analysis of —. W. Wöllmer, 1931, 261. Analysis of the bitter substances of —. W. Windisch, P. Kolbach and M. Winter, 1929, 422. antiseptic constituents of —; Gravimetric determination of —. T. K. Walker and J. J. H. Hastings, 1933, 702. Boron compounds as natural constituents of —. 1927, 459. Colorimetric method for determining the preservative value of —. J. M. French, 1931, 672. Examination of —. 1934, 230. Modification of the gravimetric method for the evaluation of —. J. J. H. Hastings and T. K. Walker, 1928, 104. Pectin in —. H. Fink and J. Hartmann, 1935, 766. preservative power of —; Standardisation of the strength of the organism used in the Chapman biological method for determining. A. C. Chapman, 1930, 57. preservative value of —; Colorimetric determination of —. J. M. Guthrie and G. G. Philip, 1933, 411; A. A. D. Comrie, 1935, 48. soft resins in —; Colorimetric method for determining. J. M. Guthrie and G. G. Philip, 1930, 703.
- Hordeanine**: Determination of —. Y. Raoul, 1934, 705.
- Hormone**: oestrus-producing —; International standard for. 1933, 407. Separation of the anterior pituitary-like — from the urine of pregnancy. C. A. Elden, 1933, 559.
- Hormones**: Application of Absorption Spectra to the Study of —. (Review), R. A. Morton, 1935, 724. Estimation of —. K. Culhane and S. W. F. Underhill, 1932, 684.
- Horse Fat**: J. Pritzker and R. Jungkunz, 1932, 265. Fatty acids of —. 1932, 112.
- Horse Chestnuts**: Preparation of saponin products from —. R. Vadas, 1928, 103.
- Hortvet** apparatus for determining the freezing-point of milk; Notes on the use of —. H. C. Lockwood, 1932, 698. apparatus; Modified — and the true freezing-point of milk. J. R. Stubbs, 1935, 607. cryoscope. G. D. Elsdon and J. R. Stubbs, 1933, 27; G. W. Monier-Williams, 1933, 254. cryoscope; Comparison of the Monier-Williams and —. 1934, 591. cryoscope; Effect of super-cooling in —. 1934, 590. cryoscope for determining the freezing-point of milk; Study of heat exchange in the Monier-Williams and —. J. R. Stubbs, 1935, 600.
- Hortvet**—continued. cryoscope; Notes on the —. D. Henville, 1932, 569. freezing-point process; Examination of 1000 milks by —. J. R. Stubbs and G. D. Elsdon, 1934, 146. freezing-point process; Correction factors and the influence of stirring. J. R. Stubbs, I, 1935, 147; II, 1935, 223; III, 1935, 233. method for freezing-point of milk. E. V. Jones, 1934, 29. test, and the alleged adulteration of milk with water. (Legal Notes), 1934, 691.
- Household Science**: Applied Chemistry: A Practical Handbook for Students of —. Vol. I, 3rd Ed. (Review), C. K. Tinkler and H. Masters, 1935, 501.
- “**Household Turps**”: (Legal Notes), 1931, 530.
- Huddersfield**: Appointment of H. T. Lea as Public Analyst for County Borough of —. 1934, 689; as Agricultural Analyst, 1935, 35.
- Hull**: See **Kingston-upon-Hull**.
- Human** blood; Ergosterol in —. L. H. Dejust, Van Stolk and E. Dureuil, 1928, 552. blood; Reducing non-sugars and true sugar in —. M. Somogyi, 1927, 719. blood; Urobilin content of normal —. M. A. Blankenhorn, 1929, 116. body; Influence of temperature, air velocity and clothing on the rate of cooling of the —. 1926, 191. expired air; Traces of combustible gases in —. T. R. Parsons, 1930, 585. faeces; Unrecognised toxic substances in —. D. C. Watson, 1928, 114. milk; Composition of —. G. D. Elsdon, 1928, 78. milk; Direct precipitation of calcium in —. C. S. Rothwell, 1927, 716. milk; Quantitative comparison of the anti-rachitic factor in cow's milk and —. J. Outhouse, I. G. Macy and V. Brekke, 1928, 450. milk; Reaction of —. W. Partridge, 1933, 88. milk studies. XIV, Critique of the determinations of nitrogenous constituents. B. N. Erickson, N. Stoner and I. C. Macy, 1934, 191. milk; Two new sugars of —; gynolactose and allolactose. M. Polonovski and A. Lespagnol, 1931, 539. organism; Presence of thiocyanates in —. Post-mortem transformation of veronal, dial and gardenal into hydrocyanogen compounds. E. Kohn-Abrest, H. Villard and L. Capus, 1930, 291. pellagra; Supposed connection between — and deficiency of vitamin B₂. W. R. Aykroyd, 1931, 56. poisoning cases. 1926, 409; in Madras, 1931, 664. red blood cells; Determination of sodium in —. F. W. Oberst, 1935, 194. sera; Alleged differentiation of — as to sex. R. R. Hyde and E. I. Parsons, 1927, 167.

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Hydnocarpus Wightiana Oil: Constituents of —. H. J. Cole, **1930**, 139.

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Hydrazine Sulphate: Determination of iodine by means of —. E. Cattelain, **1926**, 647.

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Hydriodic Acid: Action of concentrated hydrobromic and — on the cobalt ion. New reaction for nickel. G. Denigès, **1926**, 478.

Hydrobromic Acid: Action of concentrated hydriodic and — on the cobalt ion. New reaction for nickel. G. Denigès, **1926**, 478.

Hydrocarbon: An unsaturated — in olive oil. T. Thorbjarnarson and J. C. Drummond, **1935**, 23.

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Aromatic — content of natural gas petroleum. A. M. Erskine, **1926**, 476.

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Coal Tar —; The Higher. (Review), A. E. Everest, **1928**, 114.

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in coal gas; Separation of individual saturated and unsaturated — by fractional distillation. F. E. Grey and W. P. Yant, **1927**, 359. *See also* list of Errata.

in light oils and motor spirits; Determination of aromatic, unsaturated and naphthene —. A. B. Manning and F. M. E. Shepherd, **1930**, 757.

in motor fuels; Determination of unsaturated, aromatic, naphthene and paraffin —. G. Egloff and J. C. Morrell, **1926**, 316.

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Solubility of paraffin wax in pure —. P. Weber and H. L. Dunlap, **1928**, 397.

Sulphur and sulphur derivatives of — in naphtha solutions and petroleum distillates; Determination of. W. F. Faragher, J. C. Morrell and G. S. Monroe, **1928**, 54.

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Hydrocyanic Acid: Determination of reducing sugars, particularly of glucose, by alkaline copper solutions in the presence of —. H. Hérisséy and A. Chalmeta, **1929**, 421.

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Hydrocyanogen compounds; Post-mortem transformation of veronal, dial and gardenal into —. E. Kohn-Abrest, H. Villard and L. Capus, **1930**, 291.

Hydroferrocyanides: Alkaloidal — and their analytical uses. M. Gadreau, **1927**, 601.

Hydrofluoric Acid: Note on —. **1926**, 506.

Hydrofluosilicic Acid: Relative effectiveness of — as disinfectant. **1926**, 259.

Hydrogen: Analysis of mixtures of methane, ethane and —. O. J. Walker and S. N. Shukla, **1931**, 274.

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Semi-micro combustion method for determining carbon and —. W. M. Lauer and F. J. Dobrovoly, **1930**, 467.

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Hydrogen Arsenide: gaseous mixtures containing hydrogen sulphide, carbon dioxide —, hydrogen phosphide, and acetylene. M. Wilmet, **1928**, 112.

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Hydrogen Cyanide as inhibitor of bacterial growth. **1934**, 176.

Effect on foods on fumigation with —. Public Health Report No. 60. **1931**, 46.

Fumigation of ships with —. Ministry of Health Report. **1928**, 341.

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Hydrogen Ion Concentration: (Review), H. Jørgensen, **1935**, 854.

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- Relation of the — to the titratable-acidity of milk. P. F. Sharp and T. J. McInerney, **1927**, 715.
- Ruler for the interconversion of electromotive force readings and pH values in the electrometric measurement of —. J. Grant, **1930**, 658.
- Hydrogen Ions** in the blood; Determination of — with the Duboscq colorimeter. J. F. McClendon, S. Russell and E. Tracy, **1927**, 43.
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- Hydrogen Peroxide**: Action of milk peroxidase with — on metabolites. K. A. C. Elliott, **1932**, 394.
- and Caro's acid in presence of perdisulphuric acid; Volumetric determination of —. A. J. Berry, **1933**, 464.
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- Hydrogen Phosphide**: gaseous mixtures containing hydrogen sulphide, carbon dioxide, hydrogen arsenide or —, and acetylene; Determination of constituents of. M. Wilmet, **1928**, 112.
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- Hydrogen Sulphide**: Absorption of — by oxide of iron. **1934**, 624.
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- Hydrogen Value**: Application of the — to unsaturated fatty acids. H. J. Waterman, S. H. Bertram and H. A. Van Westen, **1929**, 252.
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- Hydrogenated** cottonseed oil; Melting point of —. K. A. Williams, **1928**, 110.
- oils; Identification of —. Identification and determination of cholesterol and certain other compounds. J. V. Steinle and L. Kahlenberg, **1926**, 310.
- oils; Nutritive value of —. S. Ueno, M. Yamashita and M. Ota, **1928**, 443.
- Hydrogenation**: hardening of oils by —; Theory of the. H. P. Kaufmann and E. Hansen-Schmidt, **1927**, 246.
- iso-oleic acid in the animal body; Deposition and utilisation of —. A. D. Barbour, **1933**, 557.
- method of determining nitrogen in yeast. H. ter Meulen and K. Peeren, **1932**, 524.
- of different natural fats; Rate of formation of fully-saturated glycerides during —. T. P. Hilditch and H. Paul, **1935**, 828.

Hydrogenation—*continued.*

- of fatty acids and of mixtures of fatty acids with neutral oils. R. G. Pelly, **1928**, 110.
- of fish-oils; New compounds produced during the ——. S. Ueno and R. Yamasaki, **1931**, 476.
- of fish oils; New higher alcohols produced during ——. S. Ueno and R. Yamasaki, **1931**, 414.
- of oleic acid; Chemical structure of iso-oleic acid produced during ——. S. Ueno and N. Kusei, **1930**, 409.
- Progressive — as an aid in the study of glyceride structure. A. Banks, H. K. Dean and T. P. Hilditch, **1935**, 328.
- Resistance of fat-soluble vitamins to ——. L. Randoïn and R. Lecoq, **1927**, 96.
- Hydrology**: International Society of Medical ——. **1929**, 33; Standard Measurements Committee of ——. **1931**, 745, 776.
- Hydrolysis**: Clerget-Invertase — constants of sucrose and raffinose. H. S. Paine and R. T. Balch, **1927**, 350.
- number determination for wood cellulose. L. F. Hawley and L. C. Fleck, **1927**, 611.
- of corn (maize) starch by commercial pancreatin. J. H. Walton and H. R. Dittmar, **1927**, 42.
- of corn starch; Occurrence of gentiobiose in the products of the commercial ——. H. Berlin, **1926**, 635.
- of rhamnucoside; Primeverose and rhamnucogenol, the products of enzymic ——. M. Budel and C. Charaux, **1926**, 41.
- Separation and determination of bismuth by ——. L. Moser and W. Maxymowicz, **1926**, 161.
- Hydrolytic** acidity of decolorising earths; Determination of the ——. New means of ascertaining their decolorising power. H. Utermöhlen, **1931**, 694.
- Hydrometer**: New Sikes "B" ——. **1931**, 810.
- readings; Temperature corrections of Baumé ——. C. F. Snyder, **1926**, 427.
- Hydrometers**: Spirit Tables for Use with Sikes's A. and B. ——. (Review), **1934**, 44.
- Standardisation of ——. **1927**, 414.
- Standardisation of specific gravity ——. **1932**, 462.
- Hydroquinone**: Determination of —, especially in salt herrings. W. Preiss, **1934**, 415.
- Determination of — with ceric sulphate. N. H. Furman and J. H. Wallace, Junr., **1930**, 408.
- Effect of — on the vitamin A content of stored oils. R. C. Huston, H. D. Lightbody and C. D. Ball, Junr., **1928**, 665.
- Volumetric determination of ——. I. M. Kolthoff, **1927**, 46.
- Hydrostatic Compensation**: Weighing by ——. M. Guichard, **1926**, 596.
- Hydrosulphide** ions; Measurement of hydroxyl and — in sodium sulphide solutions. A. W. Goetz, **1931**, 482.
- Hydrosulphite**: Detection of — by means of resazurin. H. Eichler, **1935**, 121.
- Hydrosulphites**: Colour reaction between naphthol yellow and ——. E. E. Jelley, **1930**, 34.

- Hydroxides** of beryllium, rare earths, zirconium and thorium; Reaction of "aluminon" with ——. A. R. Middleton, **1926**, 537.
- Hydroxy Acids** in oleines and stearines; Determination of ——. **1933**, 50.
- in presence of ferric and cupric salts; Titration of ——. C. V. Smythe, **1931**, 613.
- Quantitative micro-analytical determination of certain — by means of the photoelectric cell. A. S. Williams, R. H. Muller and J. B. Niederl, **1931**, 619.
- p-Hydroxybenzaldehyde**: Methone as reagent for ——. **1929**, 486.
- p-Hydroxybenzoic Acid** and its esters in food-stuffs; Detection and determination of ——. F. Weiss, **1930**, 584.
- esters in food and drugs; Microchemical tests for ——. R. Fischer and F. Stauder, **1931**, 275.
- p-Hydroxybenzoic Acid Methyl Ester** in foods; Detection and determination of ——. F. Weiss, **1928**, 291.
- o, m and p-Hydroxybenzoic Acids**: Identification of ——. F. F. Blicke and F. D. Smith, **1929**, 487.
- β -Hydroxybutyric Acid** in urine and other fluids of the organism; Clinical detection of ——. J. Khouri, **1933**, 292.
- Hydroxyl** content of organic compounds; Determination of ——. Estimation of castor oil. S. Marks and R. S. Morrell, **1931**, 428.
- groups in alcohols and phenols; Determination of — by benzoylation in tetrahydronaphthalene solution at high temperatures. T. M. Meijer, **1934**, 362.
- groups in sugars and other organic compounds; Volumetric determination of ——. V. L. Peterson and E. S. West, **1927**, 607.
- groups; Micro-determination of ——. P. M. and G. F. Marrian, **1930**, 598.
- groups; Use of methoxyacetic anhydride for determining ——. D. W. Hill, **1934**, 429.
- ions; Measurement of hydrosulphide and — in sodium sulphide solutions. A. W. Goetz, **1931**, 482.
- ions; Tests for small quantities of free ammonia or alkali (—). E. Schmitz, **1928**, 111.
- Hydroxylamine**: Colorimetric method for determining ——. G. W. Pucher and H. A. Day, **1926**, 266.
- Colour reaction of formaldehyde and ketones with sodium nitroprusside and ——. P. Pratesi, **1932**, 122.
- method for determining ketones. C. T. Bennett and T. T. Cocking, **1931**, 79.
- method for the volumetric determination of camphor. R. Vandoni and G. Desseigne, **1935**, 776.
- Hydroxylamine Hydrochloride** as means for quantitative determination of acetone in other organic solvents. M. Krajčínović, **1932**, 123.
- Determination of acetone by means of ——. M. Marasco, **1926**, 472.
- Hydroxylic** compounds; Use of arylcarbimides in identifying ——. G. T. Morgan and A. E. J. Pettet, **1931**, 612.

- Hydroxymethylfurfural** in honey; Tests for —. 1929, 381.
- in port wines and other sweet wines; Determination of —. C. I. Kruisheer, N. J. M. Vorstman and L. C. E. Kniphorst, 1935, 704.
- in presence of furfuraldehyde; Determination of —. 1933, 231.
- Hydroxyproline**: New colour reaction for — and its use in distinguishing the scleroproteins. W. Morse, 1933, 294.
- Hydroxyquinoline** as means of separating beryllium from aluminium. I. M. Kolthoff and E. B. Sandell, 1928, 508; from aluminium and iron. V. M. Zwenigorodskaja and T. N. Smirnowa, 1934, 645.
- as means of separating and determining titanium. R. Berg and M. Teitelbaum, 1930, 596.
- for the micro-determination of magnesium. G. Glomaud, 1934, 205.
- method for beryllium. 1932, 270.
- 8-Hydroxyquinoline** as means of determining aluminium in nitriding steels. H. A. Bright and R. M. Fowler, 1933, 498.
- as means of determining magnesium in Portland cement and similar materials. J. C. Redmond and H. A. Bright, 1931, 339.
- as means of determining metals. Part 1, H. R. Fleck and A. M. Ward, 1933, 388.
- bromometric determination of magnesium in tissues and urine with —; Use of a closed flask in. D. M. Greenberg, C. Anderson and E. V. Tufts, 1935, 832.
- Determination of magnesium with —. A. W. Hough and J. B. Ficklen, 1931, 206.
- in the determination of aluminium, beryllium and magnesium. H. B. Knowles, 1935, 777.
- Separation of aluminium by —. G. E. F. Lundell and H. B. Knowles, 1929, 770.
- Volumetric determination of —. H. R. Fleck, F. H. Greenane and A. M. Ward, 1934, 325.
- o-Hydroxyquinoline** as means for an improved method of determining magnesium. F. L. Hahn, 1931, 833.
- as means of detecting small quantities of bismuth. R. Sazerac and J. Pouzergues, 1932, 737.
- as means of determining molybdenum. G. Banulescu, 1930, 716.
- as means of determining thorium. F. Hecht and W. Ehrmann, 1935, 272.
- as means of precipitating aluminium in presence of iron, nickel, cobalt, copper, chromium and molybdenum. T. Heczko, 1935, 120.
- as reagent for separating beryllium from aluminium, iron and copper. M. Niessner, 1929, 434.
- Detection and determination of metals by means of —. (Oxin). I. M. Kolthoff, 1928, 175.
- Determination of niobium with —. P. Süe, 1933, 366.
- Determination of tungsten with —. S. Halberstadt, 1933, 302.
- Hygrometers** for measuring humidity in closed spaces. 1926, 35.
- Types of —. 1934, 112, 113.
- Hygroscopic** moisture in coals; Determination of —. H. Löffler, 1929, 433.
- Hyoscyamine**: Methyl red as indicator for —. 1926, 316.
- Hyoscyamus** extracts; Scopoletine reaction for —. E. C. M. J. Hoolman, 1931, 819.
- leaves; Assay of alkaloids in —. Ph. Fischer, 1928, 445.
- Hypervitaminosis** and vitamin "balance." L. J. Harris and T. Moore, 1929, 249; 1930, 149.
- Hypochlorite** content of solutions; Use of potassium iodate in back titration for determining —. J. R. Lewis and R. F. Klockow, 1929, 123.
- solutions; Determination of free alkali in —. E. Rupp and F. Lewy, 1928, 509.
- solutions; Observations on the pH values of —. L. P. Lynch and C. R. Nodder, 1933, 52.
- solutions; Solubility of ruthenium in — and an attempt to utilise the reaction for determining the metal. J. L. Howe and F. N. Mercer, 1926, 109.
- Hypochlorites**: Electrometric analysis of solutions of —. F. Abrisbat, 1931, 765.
- Hypochlorous Acid Value**: A new constant for fixed oils. M. Goswami and K. L. Basu, 1934, 533.
- Hypogaecic Acid**: Some ill-defined acids of the oleic series. T. P. Hilditch and N. L. Vidyarthi, 1927, 429.
- Hypophosphite**: Chloramine in the determination of —. 1934, 437.
- Hypophosphites**: Cod-liver oil emulsion with —. 1933, 688.
- Detection and differentiation of — in presence of phosphites. D. Raquet and P. Pinte, 1933, 627.
- Rapid iodimetric determination of phosphites and —, alone or mixed. D. Raquet and P. Pinte, 1933, 556.
- Hypophosphites**: Volumetric determination of —. D. Kőszegi, 1926, 426; I. M. Kolthoff, 1926, 595.
- Hypophosphorous Acid** as reducing agent for antimony and tin. 1931, 171.
- Improved method of titrating arsenic precipitated by —. B. S. Evans, 1932, 492.
- Precipitation of arsenic by —. 1929, 523.

I

- Ibotaceryl Alcohol**: 1935, 418.
- Ice**: Free and bound water determinations by heat of fusion of — method. W. Robinson, 1931, 676.
- Ice Cream**: 1929, 661; G. D. Turnbow and L. A. Raffeto. (Review), 1928, 408.
- Adulteration and misbranding of —. (Legal Notes), 1926, 516.
- Analyses of —. 1925, 36.
- and cream ices. 1927, 704.
- Chemical and bacteriological results with 13 samples. 1935, 613.
- Connecticut standard for —. 1928, 162.
- Dutch regulations for —. 1932, 21.
- egg in —; Determination of. N. C. Smith, 1930, 515.

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Salford Analyst's Report on —. **1926**, 569.

Ichthamol: sulphur content of —; Determination of. N. L. Allport, **1932**, 255.

Idee Coffee: **1934**, 188.

Ignition points of gases in nitrous oxide. H. B. Dixon, **1927**, 614.

Ihl-Pechmann Reaction for laevulose; Modification of —. C. I. Kruisheer, **1932**, 386.

Illinium: Atomic weight of —. **1929**, 296. The element of atomic number 61. J. A. Harris, L. F. Yntema and B. S. Hopkins, **1926**, 372.

Illipé Butter as substitute for cacao butter. **1927**, 452.

azelaic acid value of —; Determination of. G. Schuster, **1934**, 350.

Composition of —. G. Schuster, **1933**, 42.

Definition of —. **1927**, 329.

Illipene and the higher alcohols in commercial —. M. Tsujimoto, **1930**, 212.

in chocolate; Determination of —. H. W. Bywaters, F. T. Maggs and C. J. Pool, **1927**, 324.

Illipene and the higher alcohols in commercial illipé butter. M. Tsujimoto, **1930**, 212.

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Immersion Refractometer and its value in milk analysis. G. D. Elsdon and J. R. Stubbs, **1927**, 193.

Determination of the concentration of dilute glue liquors by means of the —. A. C. Hart, **1928**, 615.

Determination of the concentration of liquid soaps by the —. L. F. Hoyt and A. Verwiebe, **1926**, 427.

Imperial Yellow in foodstuffs; Detection of —. **1927**, 585.

Improvers: Action of bleaching agents and — on flour. (Ministry of Health Report). **1927**, 226.

in bread; Persulphates in —. **1932**, 99.

in flour; Animal experiments on the influence of —. J. von Darányi and St. von Vitéz, **1935**, 421.

Incendiarism in Madras. **1934**, 39.

Incompatibles: Table of —. (Review), R. L. Worrall, **1935**, 348.

Indian acorn oils. S. V. Puntambekar and S. Krishna, **1935**, 107.

butter-fat; Thiocyanogen value of —. U. D. Budhalakoti and K. C. Mukherji, **1935**, 767.

camels; Component fatty acids and glycerides of the milk-fat of —. D. R. Dhingra, **1934**, 554.

coffee; Detection of adulteration of —, with special reference to the extract method. E. H. Bunce and G. C. Moitra, **1932**, 708.

cottons; Wax-content and feel of —. N. Ahmad and D. L. Sen, **1934**, 431.

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dhupa kernels (*Vateria indica*) and oil. **1930**, 761.

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ephedras. Their extraction and assay. S. Krishna and T. P. Ghose, **1929**, 297.

foodstuffs; Vitamin C in —. **1935**, 616; A. R. Ghosh and B. C. Guha, **1935**, 424.

ghee; Fatty acids and component glycerides of —. R. Bhattacharya and T. P. Hilditch, **1931**, 161.

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Lac Research Institute. D. Morris, P. M. Glover and R. W. Aldis, **1935**, 282.

linaloe oil. W. H. Simmons, **1935**, 116.

milk; Some cryoscopic measurements of —. P. S. Macmahon and L. N. Srivastava, **1935**, 307.

opium; Alleged deterioration of —. D. B. Dott, **1926**, 255.

opium; Porphyroxine test for —. F. Bamford, **1930**, 445.

relish; Boron compounds in —. **1929**, 18.

seed fats; Mowha (*Bassia latifolia*) and tamal (*Garcinia morella*) fats. D. R. Dhingra, G. L. Seth and P. C. Speers, **1933**, 350.

species of artemisia; Two new crystalline principles from —. **1935**, 187.

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tea-fungus. E. Dinslage and W. Ludorff, **1927**, 605.

valerian root; Chemical constituents of the oleo resin and fatty matter of —. K. Bullock, **1926**, 525.

Indiarubber: Allen's Commercial Organic Analysis. Vol. IV, **1926**, 320.

Indican in the milk of the cow and goat. C. Hervieux, **1932**, 178.

Indicateurs Colorés; L'Emploi des —. Détermination colorimétrique de la Concentration des Ions Hydrogènes. 3rd Ed. (Review), I. M. Kolthoff, **1926**, 218.

Indicator: Benzoyl auramine G as — for Kjeldahl determinations. J. T. Scanlan and J. D. Reid, **1935**, 339.

Bromophenol blue as adsorption — in the titration of chloride and bromide with mercurous nitrate. I. M. Kolthoff and W. D. Larson, **1934**, 847.

Brucine as internal — in dichromate titrations. S. Miyagi, **1933**, 496.

Burrell methane —; Detection of petroleum vapour with the. G. W. Jones and W. P. Yant, **1926**, 104.

Cobalt chloride as — for water. **1926**, 412.

Deuterium as — in the study of intermediary metabolism. I. R. Schoenheimer and D. Rittenberg, **1935**, 770.

2,6-Dichlorophenol-indiphenol as a reduction — in the examination of foodstuffs. J. Tillmans, P. Hirsch and E. Reinshagen, **1929**, 176.

Diphenylamine as an internal — for iron. F. J. Dyer and W. B. Forbes, **1926**, 536.

Diphenylaminesulphonic acid as an —. L. A. Sarver and I. M. Kolthoff, **1931**, 686.

Diphenylcarbazine as — in the mercurimetric determination of iodine. J. V. Dubský and J. Trtřlek, **1935**, 200.

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- aa'*-Dipyridyl as — in the cerimetric titration of small amounts of iron. C. J. van Nieuwenburg and H. B. Blume, **1935**, 847.
- for the volumetric determination of phosphoric acid. L. Duparc and E. Rogovine, **1928**, 509.
- in the investigation of polluted water; Use of sulphur bacteria as —. D. Ellis, **1926**, 530.
- Internal — for bromate titrations. G. F. Smith and H. H. Bliss, **1931**, 554.
- Internal — for the dichromate titration of iron. M. E. Weeks, **1932**, 404.
- Iodeosin — in alkaloidal determinations. D. B. Dott, **1926**, 255.
- Iodine-starch — for the volumetric determination of iodide. E. Chirnoaga, **1935**, 780.
- α -Naphthoflavone as — for bromate titrations. E. Schulek, **1935**, 718.
- Nitrazine yellow, a new —. H. Wenker, **1934**, 365.
- Pinachrome as a one colour —. I. M. Kolthoff, **1928**, 455.
- properties of dinitroaniline azo dyestuffs. H. Wenker, **1935**, 270.
- question. The —. K. Linderstrøm-Lang, **1928**, 558.
- Reaction of resorcinol and a new coloured —. L. Bey and M. Faillebin, **1929**, 561.
- Rosinduline as oxidation-reduction —. L. Michaelis, **1931**, 415.
- Sinalbin as an —. K. Harrison, **1932**, 401.
- Universal — which gives colours of the spectrum over a pH range of 3 to 11.5. H. W. Van Urk, **1929**, 254.
- Indicators:** (Review), I. M. Kolthoff, **1927**, 254.
- Acid-base —. 4th Ed. (Review), I. M. Kolthoff and H. Fischgold, **1933**, 375.
- Adsorption — for use in volumetric analysis. A. W. Wellings, **1933**, 331.
- adsorption —; Use of, in titrations of halides of limited or reversible ionisation. A. J. Berry, **1932**, 511.
- Behaviour of — in the titration of ammonia, sodium and calcium phosphates, the methylamines, pyridine bases and boric acid. R. T. Thomson, **1928**, 315.
- Catalogue of B.D.H. — and Accessories for determining Hydrogen Ion Concentration. **1933**, 574.
- Colour — for permanganate titrations. (a) Determination of ferrocyanide. J. Knop, **1929**, 437; (b) Determination of iron. J. Knop and O. Kubelkova, **1929**, 437.
- Complex ions as — in analysis. A. R. Ubbelohde, **1934**, 339.
- diphenylcarbazine and diphenylcarbazone as — in mercury titrations. J. V. Dubský and J. Trtílek, **1934**, 304.
- Diphenylcarbazide as — in the mercurimetric determination of chloride. J. Trtílek, **1934**, 717.
- fluorescence acidimetric and adsorption —; Some examples of. H. R. Fleck, R. F. G. Holness, and A. M. Ward, **1935**, 32.

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- fluorescence —. New. K. A. Jensen, **1933**, 722.
- fluorescent; Application of ultra-violet rays and —. W. Holthoff, **1933**, 180.
- Fluorescent — as means of determining the acidity of red wines. Y. Volmar and S. M. Clavera, **1931**, 540.
- for alkaloidal titrations. H. Wales, **1926**, 316.
- for argentometry; New —. E. Chirnoaga, **1935**, 428.
- for argentometry; New adsorption together with a comparison of their limits of sensitivity. A. J. Berry and P. J. Durrant, **1930**, 613.
- for determining boric acid. **1930**, 26.
- for the reaction between ceric and ferrous ion. N. H. Furman and J. H. Wallace, Junr., **1930**, 527.
- Isohydric — and pure water for accurate measurement of hydrogen ion concentrations and salt errors. S. F. Acree and E. H. Fawcett, **1930**, 215.
- Methoxytriphenylcarbinols as one-colour —. I. M. Kolthoff, **1927**, 430.
- p*-Nitrophenyl-acetyl-hydrazine, 2, 4-dinitrophenyl-acetyl-hydrazine and 2, 4, 6-trinitrophenyl-acetyl-hydrazine as —. A. Bloom and A. Osol, **1934**, 126.
- of the pH value as means of differentiating aluminium alloys. Cu. Quillard, **1928**, 112.
- of the sulphophthalein series; New —. **1928**, 558.
- Radio-elements as —. F. Paneth, **1928**, 180.
- Rhodizonic acid as — in the volumetric determination of barium. A. Friedrich and S. Rapoport, **1934**, 439.
- The Use of Coloured —. Colorimetric Determination of Hydrogen Ion Concentrations. (Review), I. M. Kolthoff, **1926**, 218.
- Indigo** in sweets. **1934**, 484.
- ols; Detection of nitrous acid with —. E. von Migray, **1933**, 245.
- Indigo Carmine:** Use of — in micro-volumetric analysis. I. M. Korenman, **1935**, 782.
- Indium:** Analytical chemistry of — (Part 1). L. Moser and F. Siegmann, **1930**, 218.
- Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 414, 547.
- Reaction of aluminum with hydroxides of scandium, gallium, thallium, germanium and —. R. B. Corey and H. W. Rogers, **1927**, 172.
- Separation of gallium from —. **1929**, 367.
- Indole** in bacterial cultures; Quantitative determination of —. H. B. Pierce and R. B. Kilborn, **1929**, 251.
- Indolic Compounds:** Colour reaction of —. E. Montignie, **1932**, 588.
- Indophenol** reaction in biological oxidations. D. C. Harrison, **1930**, 146.
- reducing capacity and vitamin C content of extracts of young germinated peas. S. W. Johnson, **1934**, 359.
- test. (Phenol tests, III.) H. D. Gibbs, **1927**, 360.

- Indoxyl Compounds** in blood; Quantitative determination of —. H. Sharlit, **1934**, 190.
 in urine; Quantitative determination of —. H. Sharlit, **1933**, 170.
- Industrial Applications of Catalysis.** (Review), E. B. Maxted, **1933**, 374.
 Carbon. (Review), C. L. Mantell, **1929**, 622.
 Catalysis. (Review), S. J. Green, **1928**, 621.
 Chemical Calculations. (Review), O. A. Hougen, **1932**, 483.
 Chemistry. (Review), A. Rogers, **1926**, 601.
 Chemistry; Hydrogen Ions—Their Determination and Importance in Pure and —. (Review), H. T. S. Britton, **1929**, 687.
 Chemistry. Importance of Hydrogen Ions in —. (Review), H. T. S. Britton, **1932**, 543.
 Chemistry of the Fats and Waxes. (Review), T. P. Hilditch, **1928**, 63.
 diseases. (Report of the Chief Inspector for Factories and Workshops, 1928.) **1929**, 745.
 Distillation; Principles and Practice of —. (Review), E. Hausbrand, **1926**, 58.
 laboratories; Micro-analytical methods in —. **1932**, 541.
 lead poisoning; Mechanism and incidence of —. **1927**, 53.
 Microbiology. The Utilisation of Bacteria, Yeasts and Molds in — Processes. Review, H. F. Smyth and W. L. Obold, **1932**, 423.
 Microscopy. (Review), W. Garner, **1933**, 313.
 Poisons; Pathology of some —. A. J. Amor, **1931**, 559.
- Industry:** Chemistry in —. (Review), H. Howe, **1926**, 489.
 Law and —. (Review), G. S. W. Marlow, **1930**, 303.
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- Infants' Food:** Misleading labelling of —. **1930**, 388.
- Infection** and temperature relations of black rot of sweet potatoes in storage. J. I. Lauritzen, **1927**, 99.
 by certain organisms of the salmonella group. S. R. Damon and L. W. Leiter, **1927**, 167.
- Infections:** Food — and Food Intoxications. (Review), S. R. Damon, **1928**, 405.
- Infectivity** of the milk of tuberculous cows; Effect of Pasteurisation on the —. R. G. White, **1926**, 156.
- Infra-Red** Photography. (Review), S. O. Rawling, **1933**, 726; 2nd Ed., **1935**, 790.
 photography; Application of — to textiles. P. W. Cunliffe, **1933**, 308.
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 rays in criminal investigation. F. W. Martin, **1933**, 644.
 rays in the examination of inks and pigments. C. A. Mitchell, **1935**, 454.
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- Ink—continued.**
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 -writing; Erasures and offsets in —. T. J. Ward, **1934**, 343.
 -writing; Use of mercury vapour lamp in detecting bleached —. **1929**, 545.
- Inks:** acidity in writing —; Potentiometric determination of. H. A. Bromley and L. W. Causser, **1930**, 277.
 acidity of writing —; Electrometric determination of. H. A. Bromley and A. de Waele, **1926**, 567.
 and ultra-violet light. C. A. Mitchell, **1930**, 746.
 Chemistry and Manufacture of Printing and Writing —. (Review), W. B. Gamble, **1927**, 313.
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 Sulphate "pictures" as means of identifying —. W. Heess, **1935**, 338.
- Inorganic analysis;** Aids to Qualitative —. R. G. Austin, **1934**, 584.
 Analysis; Applied —. (Review), W. F. Hillebrand and G. E. F. Lundell, **1930**, 351.
 blood phosphorus and bone ash in rats fed on normal, rachitic and irradiated rachitic diets. R. A. Dutcher, M. Creighton and H. A. Rothrock, **1926**, 206.
 chemical analysis; Applications of the inhibiting action of certain ions on the fluorescence of the uranyl ion to —. Volmar and Mathis, **1933**, 570.
 Chemical Nomenclature; Commission on —. **1928**, 655.
 chemical nomenclature; Revision of —. **1926**, 192, 194, 634.
 Chemical Symbols and other useful Chemical Data. (Review), E. R. Darling, **1927**, 502.
 Chemistry; A Comprehensive Treatise on Theoretical and —. Vol. VI. (Review), J. W. Mellor, **1926**, 113; Vol. VII, **1927**, 309; Vol. VIII, **1928**, 511; Vol. IX, **1929**, 377; Vol. X, **1930**, 773; Vol. XI, **1931**, 838; Vol. XII, **1933**, 251; Vol. XIII, **1934**, 852.
 Chemistry; Abegg's Handbook —. Vol. IV, The Noble Gases. (Review), E. Rabino-witsch, **1928**, 678.

Inorganic—continued.

- Chemistry; Course of —. (Review), F. Swarts, 1927, 369.
- Chemistry; Elementary —. J. W. Mellor. (Review), 1930, 662.
- Chemistry; Intermediate —. J. W. Mellor. (Review), 1930, 417.
- Chemistry; Manual of Practical —. E. H. Riesenfeld. Translated by P. Ráy, 1934, 319.
- Chemistry; Recent Advances in Physical and —. (Review), A. W. Stewart, 1926, 541; 6th Ed., 1931, 425.
- Chemistry; Textbook of —. (Review), F. Ephraim, 1926, 651; 2nd Ed., 1934, 309.
- Chemistry; Textbook of —. Ed. by J. N. Friend. Vol. VI, Part 2, Phosphorus. By E. B. R. Prideaux. (Review), 1934, 511.
- Chemistry; Textbook of —. (Review), A. F. Holleman and H. C. Cooper, 1928, 184.
- Chemistry. Vol. II, of Recent Advances in Analytical Chemistry. (Review), edited by C. A. Mitchell, 1931, 839.
- Colloid Chemistry. H. B. Weiser. (Review), 1933, 787; Vol. II, 1935, 728.
- compounds; Determination of cadmium in organic and —. H. ter Meulen and H. J. Ravenswaay, 1929, 190.
- compounds; Determination of mercury in organic and —. H. ter Meulen, 1926, 422.
- compounds; Determination of small quantities of mercury in presence of —. R. Robinson, 1929, 145.
- gravimetric micro analysis; New method of —. I, Determination of small quantities of gold in presence of large amounts of iron, lead and copper. J. Donau, 1930, 598.
- halides; Rapid method for determining halogen in insoluble —. R. H. Klein, 1930, 192.
- Materials; Quantitative Analysis of —. N. Hackney, 1930, 775.
- Nomenclature; Comité de Travail for the Reform of —. 1928, 41.
- Nomenclature; Report of Committee on —. Washington Meeting, 1926, 634.
- Pharmaceutical Chemistry for Students of Pharmacy and Pharmacists; A Textbook of —. (Review), C. H. Rogers, 1930, 602.
- Physical Chemistry. (Review), G. H. Cartledge, 1926, 217.
- Quantitative Analysis. H. A. Falls, 1929, 314, 502.
- salts; Potentiometric titration of boric acid in presence of certain —. M. G. Mellon and F. R. Swim, 1928, 178.
- Substances; Preparation of Pure —. (Review), E. H. Archibald, 1932, 743.
- Substances; Detection and Determination of Small Amounts of — by Colorimetric Methods. N. Strafford, 1933, 652.
- sulphate in serum; Determination of —. R. S. Hubbard, 1930, 764.
- Inositol** in animal tissues; Determination of —. L. Young, 1934, 837.
- Volumetric determination of —. L. Young, 1934, 836.
- Insect** fats. Fat from aphidian parasites of the terobinth. J. Timon-David, 1928, 236.
- oils. M. Tsujimoto, 1929, 305.

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- oils; Action of bromine on —. J. Timon-David, 1929, 433.
- powder; Adulteration and misbranding of —. (Legal Notes), 1927, 152.
- Insecticidal** value and determination of pyrethrin I and II in *Pyrethrum cinerariaefolium*. I. F. Tattersfield and R. P. Hobson, 1929, 351.
- Insecticide**: Derris root as an —. 1928, 597.
- Insecticides**: Analysis of —. 1927, 538.
- Arsenical — and contamination of apples, 1926, 134.
- containing fluorine compounds; Analysis of —. L. Hart, 1929, 621.
- Examination of — in Canada. 1928, 596.
- Fluosilicates as —. S. Marcovitch, 1926, 420.
- halogens in —; Determination of. 1931, 61.
- Ministry of Agriculture Specifications and Methods of Analysis of —. Bull. No. 82. 1934, 694.
- naphthalene in —; Determination of. W. L. Miller, 1934, 566.
- nicotine in —; Determination of. 1927, 25; A. Sabatié, 1931, 121.
- petroleum —; Relation between effectiveness and composition of. G. P. Gray and E. R. de Ong, 1926, 211.
- Study of Travers's method for determining fluorine with reference to —. C. M. Smith, E. H. Hamilton and J. J. C. Graham, 1931, 551.
- Valuation of —. C. H. Peet, 1929, 49.
- Vol. II of Wiley's "Principles and Practices of Agricultural Analysis." (Review), 1933, 57.
- Insects** as test animals in vitamin research. I, Vitamin requirements of the flour beetle, *Tribolium confusum* Duval. M. D. Sweetman and L. S. Palmer, 1928, 348.
- Poisonous —. 1932, 313.
- Quantitative toxicological investigations on mandibulate —. F. L. Campbell, 1926, 313.
- Inspector's** right of selection; Arsenical apples. (Legal Notes), 1926, 242.
- Institute of Chemistry**: Jubilee of the —. 1928, 68.
- Insulators**: Heat —. (Food Investigation Report No. 35.) 1929, 743.
- Insulin** and its manufacture. F. H. Carr, 1926, 597.
- chemical properties of —; Further investigation of. D. A. Scott, 1926, 96.
- content of the pancreas in cattle of various ages. A. M. Fisher and D. A. Scott, 1934, 755.
- crystalline —; Studies on. IX, The adsorption of — on charcoal. H. Jensen and A. de Lawder, 1930, 586.
- Estimation of —. 1932, 689.
- International standard —. 1935, 249.
- Purification and properties of —. F. Dickens, E. C. Dodds, W. Lawson and N. F. MacLagan, 1927, 553.
- solutions; Optical rotation of glucose and — in contact with muscle tissue *in vitro*. H. H. Beard and V. Jersey, 1926, 640.
- substitutes; Search for —. 1928, 287.

- Intermediates**: Determination of nitrogen by the Kjeldahl method, applied to the analysis of colouring matters and —. P. Sisley and M. David, **1929**, 434.
 Estimating dyestuff — by coupling. S. Ueno and H. Sekiguchi, **1935**, 492.
 for Dyestuffs. (Review), A. Davidson, **1926**, 219.
- "Internal Electrolysis"**: See **Electrolysis**.
- International Commission for Uniform Methods of Sugar Analysis**. British National Committee Report, **1935**, 411; Proceedings of Eighth Session. **1933**, 156.
 critical tables of numerical data of physics, chemistry and technology. (Review), **1926**, 482.
 Society of Medical Hydrology, **1929**, 33.
 standard for the oestrus-producing hormone. **1933**, 407.
 standard measurements for mineral water analysis. **1929**, 33.
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 Union of Chemistry; First Report of the Committee on Atomic Weights. **1931**, 538; Second Report, **1932**, 316; Third Report, **1933**, 230; Fourth Report, **1934**, 310, 414, 547; Fifth Report, **1935**, 477.
 Union of Pure and Applied Chemistry; Eighth Conference of the —. **1928**, 41; Ninth Conference, **1928**, 655.
 vitamin standards. **1935**, 323.
- Intestinal bacteria** isolated from packed dates. R. F. Hunwicke and G. N. Grinling, **1928**, 395.
- Intoxication**: alcoholic —; A chemical test for. H. W. Southgate, **1926**, 208.
 Alcoholic concentration in urine as a test of —. G. Carter, **1927**, 615.
- Intoxications**: Food Infections and Food —. (Review), S. R. Damon, **1928**, 405.
- Inulase**: Spot test for detecting —. **1934**, 508.
- Inulin**: Determination of —. Application to the analysis of coffee substitutes and to the problem of caramelisation. C. I. Kruisheer, **1933**, 231.
 Determination of fructose, sucrose and —. W. R. Campbell and M. I. Hanna, **1926**, 582.
- Invert Sugar**: See **Sugar**: invert.
- Invertase** action; Glucose and fructose retardation of —. J. M. Nelson and R. S. Anderson, **1926**, 588.
 from honey. P. E. Papadakis, **1929**, 669.
 Spot test for detecting —. **1934**, 508.
- Iodate**: Interference of — in the nitrite test for water. C. F. Hickethier and A. Jacobucci, **1926**, 48.
 methods; Volumetric —. (Review), G. S. Jamieson, **1926**, 542.
 Volumetric determinations by —. A. Schwicker, **1929**, 493.
- Iodates**: Gasometric micro method for determining sulphates and —, and its application to determination of total base in blood serum. D. D. Van Slyke, A. Hiller and K. C. Berthelsen, **1927**, 651.
- Iodeosin** indicator in alkaloidal determinations. D. B. Dott, **1926**, 255.
- Iodic Acid** as means of detecting morphine in papaverine hydrochloride. R. Monnet, **1935**, 482.
 periodic acid in presence of —; Determination of. P. Fleury and J. Lange, **1933**, 307.
- Iodide**: Determination of — by photometric titration. S. Hirano, **1934**, 573.
 Determination of small quantities of —. Application to the determination of chromate and silver. M. L. Jean, **1935**, 429.
 in presence of chloride; Argentometric determination of —. I. M. Kolthoff, **1927**, 305.
 in presence of other halides; New method for colorimetric determination of small quantities of —. A. C. Bose and K. N. Bagchi, **1935**, 80.
 Iodimetric titration of nitrite and —. C. A. Abeledo and I. M. Kolthoff, **1931**, 688.
 method for copper; Modification of Low's —. H. F. Bradley, **1929**, 63.
 Test for —. C. I. Kruisheer, **1932**, 672.
 Volumetric determination of — with an iodine-starch indicator. E. Chirnoaga, **1935**, 780.
- Iodides**: Analysis of mercuric —. J. Sandilands, **1926**, 255.
 Determination of soluble —. J. F. Spencer and M. L. Smith, **1927**, 270.
 Effect of fluorides and — on the clotting of milk by pepsin. W. M. Clifford, **1928**, 663.
 Experiences in the determination of very small quantities of —. J. T. Dunn, **1928**, 211.
 in presence of chlorides; Micro-determination of —. I. Bellucci, **1935**, 275.
 Micro-titration of — in absence or in presence of large proportions of nitrite. J. F. Reith, **1929**, 371.
 Separation of potassium and sodium as —. L. Szebellédy and K. Schick, **1934**, 502.
- Iodimetric Determination** of antimonious ion. A. Travers and Jouot, **1927**, 303.
 of arsenic acid. B. Ormont, **1926**, 269.
 of bromide ions. Z. Szabo, **1931**, 480.
 of chromate in presence of organic matter. F. Feigl, K. Klanfer and L. Weidenfeld, **1930**, 348.
 of chromium. E. Schulek and A. Dózsa, **1931**, 832.
 of chromium (chromic oxide) in chrome alum. J. E. S. Han, **1929**, 307.
 halogens. P. L. Hibbard, **1926**, 538.
 of methylene blue. W. C. Holmes, **1928**, 111.
 of mixtures of isomeric unsaturated compounds. R. P. Linstead and J. T. W. Mann, **1931**, 414.
 of oxidase activity. J. D. Guthrie, **1930**, 709.
 of phosphorous acid and the use of sodium hydrogen carbonate in iodimetry. P. Carre, **1928**, 305.
 of reducing sugars in the apple. H. K. Archbold and E. M. Widdowson, **1931**, 462.
 of selenium. R. Berg and M. Teitelbaum, **1928**, 241.
 of small amounts of zinc. H. A. Pagel and O. C. Ames, **1930**, 648.
 of the carbonyl group in organic compounds. E. G. R. Ardagh and J. G. Williams, **1926**, 102.

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- of thiocyanates. A. Schwicker, **1929**, 493.
 of vanadium. J. B. Ramsey, **1927**, 432.
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 W. Werz, **1928**, 354; **1930**, 769; **1931**, 339.
- Iodimetric Titration** of acids. I. M. Kolthoff,
1926, 477.
 of iodide and nitrite. C. A. Abeledo and I. M.
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 of thiocyanate. H. A. Pagel and H. J. Koch,
1931, 555.
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 and L. H. van Berk, **1927**, 48.
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- Iodimetry**: Hydrazine sulphate in ——. E.
 Cattelain, **1926**, 51.
 New type of end-point in electrometric
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 Foulk and A. T. Bawden, **1926**, 539.
 of meal products. K. Fuchs, W. Ruziczka and
 E. Kohn, **1930**, 699.
 Use of sodium hydrogen carbonate in ——.
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- Iodinated** organic compounds; Determination of
 mercury in ——. R. B. Sandin and E. T.
 Margolis, **1935**, 841.
- Iodine** absorption; Differentiation of flours by
 — and by rapidity of sedimentation.
 N. A. Trofimuk, **1927**, 89.
 absorption; The Wijs method as the standard
 for ——. J. J. A. Wijs, **1929**, 12.
 Action of — on cholesterol. E. Montignie,
1934, 426.
 Alkaline solution of — as means of
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 oxal, and its chemical mechanism. F. Fischler
 and R. Boettner, **1928**, 453.
 as a differential reagent between ammonium
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1929, 295; **1933**, 230; **1934**, 547.
 Behaviour of different starches towards dye-
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 bromine free from —; Preparation of.
 G. M. Karns and H. C. Donaldson, **1932**, 273.
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 W. B. Matskiewitsch, **1934**, 135.
 colorimetric method for determining starch.
 L. Paloheimo, **1930**, 767.
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 T. A. Pickett and W. L. Brown, **1935**, 622.
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- content of Pennsylvania potatoes. D. E. H.
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 cyanogen iodide in —; Detection of.
 S. Morris, E. B. Callaghan and L. Dunlap,
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 R. E. Remington, F. B. Culp and H. von
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 bach, **1932**, 105.
 in biological material; Determination of —.
 V. Trevorrow and G. L. Fashena, **1935**, 628.
 in biological substances; Determination of
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 in blood and organic materials; New method
 for determining ——. D. R. McCullagh,
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 in blood and thyroid; Determination of —.
 L. Bellucci and R. Vigni, **1935**, 263.
 in blood; Micro colorimetric method for the
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 in blood; Technical refinements for the micro
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 in cabbage. J. F. McClendon and C. E.
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 in common salt; Micro-determination of —.
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 in desiccated thyroid gland; Determination of
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 in dried seaweed and seaweed gels. **1933**, 405.
 in eggs; Micro-determination of ——. H. J.
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 in iodised oils; Determination of ——. T. T.
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 in "iodised" salt and fish meal. **1930**, 390.
 in iodised salt; Determination of ——. R. L.
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 in mercury compounds; Volumetric deter-
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 in natural waters; Determination of ——.
 H. W. Brubaker, H. S. Van Blarcom and
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 in organic combinations, especially in thyroid
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 in organic compounds containing selenium;
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 in organic material rich in iron; Determination
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- in organic matter; Determination of — (halogen). J. Schwaibold, **1929**, 185.
- in organic substances; Micro-determination of —. T. Leipert, **1930**, 413.
- in phosphate rock; Determination and occurrence of —. W. L. Hill and K. D. Jacob, **1933**, 303.
- in soil, salt and water-concentrates. R. McCarrison, C. Newcomb, B. Viswanath, and R. V. Norris, **1928**, 59.
- in soils; Determination of —. **1927**, 539; G. S. Fraps, J. F. Fudge and E. C. Carlyle, **1935**, 631.
- in soils and waters; Determination of minute amounts of —. R. L. Andrew, **1930**, 269.
- in thyroid gland; Determination of total —. **1932**, 604.
- in thyroid gland; Method for determining —. F. A. Pickworth, **1926**, 92.
- in thyroid gland, thyroxine and other organic compounds; Determination of —. G. Middleton, **1930**, 285.
- in vegetables; Determination of traces of —. J. F. McClendon and R. E. Remington, **1929**, 239.
- in water-gas; Occurrence of —. H. Mohorčić, **1926**, 51.
- mercerisation test. W. F. A. Ermen, **1931**, 550.
- Mercurimetric determination of — with diphenylcarbazine as indicator. J. V. Dubský and J. Trtílek, **1935**, 200.
- metabolism. C. Newcomb and G. Sankaran, **1930**, 399.
- method for determining oxides in steel. T. E. Rooney and A. G. Stapleton, **1935**, 637.
- method for determining starch; A new —. J. J. Chinoy, F. W. Edwards and H. R. Nanji, **1934**, 673.
- Micro-determination of —. Parts 1, 2 and 3. G. Lunde, K. Closs and J. Böe, **1930**, 413.
- Micro-determination of — and a useful micro-desiccator. W. Münster, **1934**, 438.
- ointment. **1935**, 243, 754.
- ointment: A question of warranty. (Legal Notes), **1935**, 245.
- ointments; Note on the analysis of —. F. W. Edwards, E. B. Parkes and H. R. Nanji, **1935**, 747.
- paint (methylated). **1935**, 468.
- preparations; Colloidal —. S. J. Hopkins; **1931**, 543.
- Quantitative determination of organic and inorganic — in presence of each other. G. Lunde, K. Closs and J. Böe, **1930**, 413.
- Reaction of caffeine with — in caesium iodide solution. M. Wagenaar, **1933**, 501.
- reducing value of orange juice. M. A. Joslyn and G. L. Marsh, **1934**, 759.
- Sensitive test for —. C. V. King and M. B. Jacobs, **1931**, 554.
- Solution of —. **1929**, 539; **1935**, 406.
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- solutions; Note on the titration of dilute sulphite solutions with standard —. H. M. Mason and G. Walsh, **1928**, 144.
- solutions; Use of hydrazine sulphate for the standardisation of —. E. Cattelain, **1926**, 317.
- “Spirit of —.” **1935**, 406, 612.
- survey of New Zealand live stock. E. Masoz, **1934**, 188.
- Tincture of — and solution of —. (Legal Notes), **1929**, 470.
- tincture of —, Supply of. **1933**, 224.
- Volumetric determination of small quantities of —. J. F. Sadusk and E. G. Ball, **1934**, 133.
- Iodine Chloride** solutions; Action of — on fatty acids with conjugated double linkings. Determination of the iodine value. E. T. Gelber and J. Böeseke, **1929**, 305.
- Iodine Monochloride**; Action of — on cholesterol. Determination of the iodine value. H. Werner, **1931**, 475.
- Iodine Pentoxide**; Suspension of — in fuming sulphuric acid as means for the volumetric determination of carbon monoxide. H. A. J. Pieters, **1931**, 550.
- Iodine-Starch** indicator for the volumetric determination of iodide. E. Chirnoaga, **1935**, 780.
- Iodine Value**; Action of iodine monochloride on cholesterol. Determination of the —. H. Werner, **1931**, 475.
- Determination of —. II, Action of iodine chloride solutions on fatty acids with conjugated double linkings. E. T. Gelber and J. Böeseke, **1929**, 305.
- Determination of — by the pyridine sulphate bromide method. H. Hawley, **1933**, 601.
- in aqueous emulsion; Determination of —. J. Fialkow, **1927**, 246.
- New reagent for the determination of —. L. Hunter and F. F. Hyde, **1933**, 523.
- of camphor oil. S. Yamada and T. Koshitaka, **1928**, 605.
- of commercial Californian sardine oil. M. S. Dunn and B. S. Hollombe, **1927**, 483.
- of Irish butter. P. S. Arup, **1932**, 610.
- of linolenic, linolic and stearolic acids by the Wijs and Rosenmund-Kuhnemann methods. Y. Toyama and T. Tutiya, **1935**, 334.
- of oil; Determination of true —. **1930**, 361.
- of oils and lipids; Determination of —. M. Yasuda, **1932**, 182.
- of paprika oil. L. C. Mitchell, **1927**, 161.
- of perilla oil. C. A. Lathrap, **1932**, 661.
- of some sterols by Dam's method. A. M. Copping, **1928**, 664.
- of the solid fatty acids separated by Twitchell's method; Detection of hardened fat in beef fat from —. S. C. L. Gerritzen and M. Kauffman, **1928**, 44.
- of tung oil. K. Ho, S. Wan and S. H. Wen, **1935**, 569.
- of unsaponifiable matter of oils; Determination of —. **1930**, 6.
- Partial — of linseed oil. F. Frita, **1930**, 343.

- Iodism**: Micro-detection of zinc and cadmium with —. 1933, 785.
- Iodised oils**: Determination of iodine and chlorine in —. T. T. Cocking and G. Middleton, 1931, 671.
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- salt and fish meal; Iodine in —. 1930, 390.
- salt; Iodine determined in —. 1934, 143; R. L. Andrew and J. L. Mandeno, 1935, 801.
- Iodobismuthate**: Determination of caesium as —. R. W. Feldmann, 1935, 719.
- Iodoform test**; Improved —. R. C. Fuson and C. W. Tullock, 1934, 769.
- 7-Iodo-8-Hydroxyquinoline-5-Sulphonic Acid**: Colorimetric determination of ferric iron with —. J. H. Yoe, 1933, 54.
- Iodophile reaction**. Histochemical reaction of lecithins. M. Romieu, 1927, 421.
- Iodoplatinate**: Determination of potassium as —; Micro method for. A. T. Shohl and H. B. Bennett, 1928, 559.
- Ionic Migration**: Attempted separation of hafnium and zirconium by —. J. Kendall and W. West, 1926, 647.
- Separation of radium and mesothorium I from barium by —. J. Kendall, E. R. Jette and W. West, 1927, 106.
- Ionimetric Acidity**: Measurement of the — by the inversion of sucrose. Application to complex media. V. Vincent, 1927, 249.
- Ionone**: Determination of —. R. D. Hendriksz and A. Reclaire, 1929, 122.
- of Spanish paprika oil. L. C. Mitchell and S. Alfend, 1929, 44.
- β -Ionone** in a natural product; Presence of —. S. Sabetay, 1930, 209.
- Ions Hydrogènes**; Détermination colorimétrique de la concentration des —. L'emploi des indicateurs colorés. 3rd Ed. (Review), I. M. Kolthoff, 1926, 218.
- Use of complex — as indicators in analysis. A. R. Ubbelohde, 1934, 339.
- Ipecacuanha alkaloids**; Bromine as a reagent in determining —. 1931, 730.
- Ipomoea**: Assay of —. L. E. Warren, 1930, 639.
- resin: its solubility in ether and the acid value as a test for rosin. C. E. Corfield and W. R. Rankin, 1931, 673.
- Iraq dates**; Composition of —. M. M. Cleveland and C. R. Fellers, 1932, 660.
- Iridium**: Atomic weight of —. 1928, 160; 1929, 296; 1934, 547.
- Reagents for —. 1935, 782.
- Separation and determination of —. L. Moser and R. Hackhofer, 1932, 194.
- Separation of — from iron. W. R. Schoeller 1926, 392, 455; Erratum, 1926, 455.
- Volumetric determination of —. S. C. Woo and D. M. Yost, 1931, 336.
- Irish bog butter**; Analyses of two samples of —. P. S. Arup, 1932, 300.
- butter; Composition of —. Distribution of the volatile acid groups among the glycerides of butter fat. P. Arup, 1928, 641.
- butter; Constants of —. (Legal Notes), 1927, 411.
- butter; Iodine and thiocyanogen values of —. P. S. Arup, 1932, 610.
- Irish—continued.**
- moss mucilage and a method for its determination. P. Haas and B. Russell-Wells, 1927, 265.
- winter butter; Composition of —. P. Arup, 1929, 634.
- Iron alloys**; Work for Research Committee on —. 1927, 414.
- Aluminium in presence of — precipitated by *o*-hydroxyquinoline. T. Heczko, 1935, 120.
- Atomic weight of —. 1928, 160; 1929, 295; 1934, 547.
- Benzoate method of precipitating aluminium, chromium and —. I. M. Kolthoff, V. A. Stenger and B. Moscovitz, 1934, 435; L. Lehrman and J. Kramer, 1935, 197.
- Butylphenylarsonic acid as reagent for the gravimetric determination of —. K. A. Craig and G. C. Chandlee, 1934, 571.
- cast-; Determination of phosphorus in —. A. T. Etheridge, 1931, 14, 454; N. D. Ridsdale, 1931, 452.
- Cerimetric titration of small amounts of —, with the use of *aa*'-dipyridyl as indicator. C. J. van Nieuwenburg and H. B. Blumendal, 1935, 847.
- chromium in presence of —; Notes on the determination of, with perchloric acid as oxidising agent. J. Haslam and W. Murray, 1934, 609.
- Colorimetric determination of — as thiocyanate. L. de Brouckère and A. E. Gillet, 1933, 640.
- Colorimetric determination of — by the ferrocyanide method. W. R. Mummery, 1926, 511.
- Colorimetric determination of — with potassium thiocyanate. L. S. v. d. Vlugt, 1928, 615.
- content of animal tissues. C. A. Elvehjem and W. H. Peterson, 1927, 650.
- content of biological materials; Thioacetic acid as reagent for determining the inorganic —. S. L. Tompsett, 1934, 835.
- content of feeding stuffs. J. T. Skinner and W. H. Peterson, 1928, 670.
- content of meats. E. B. Forbes and R. W. Swift, 1926, 303.
- content of milk; Effects of diet on the —. C. A. Elvehjem, R. C. Herrin and E. B. Hart, 1927, 166.
- content of plant and animal foods. W. H. Peterson and C. A. Elvehjem, 1928, 444.
- content of the whole blood of normal individuals. O. M. Helmer and C. P. Emerson, Junr., 1934, 190.
- copper in presence of —; Detection and determination of. 1930, 379; L. Szabellédy, 1929, 63; L. J. Chalk, 1930, 187; L. A. Haddock and N. Evers, 1932, 495.
- Determination of —. Ceric sulphate as a volumetric oxidising agent. H. H. Willard and P. Young, 1928, 404.
- Determination of —. Colour indicators for permanganate titrations. J. Knop and O. Kubelkova, 1929, 437.
- Determination of traces of — by photochemical and colorimetric methods. B. S. Sharma, 1930, 67.

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- Determination of very small quantities of —. H. L. Smith and J. H. Cooke, **1926**, 503.
- Diphenylamine as an internal indicator for —. F. J. Dyer and W. B. Forbes, **1926**, 536.
- Dried sulphate of —. **1927**, 223; J. F. Liverseege, **1926**, 239.
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- ferrous — in silicates; Determination of. L. A. Sarver, **1927**, 496.
- gold in presence of large amounts of lead, copper and —; Determination of small quantities of. J. Donau, **1930**, 598.
- graphite and combined carbon in pig —; Determination of. W. A. Burford and W. Bader, **1927**, 104.
- Gravimetric determination of — by means of potassium cyanate. B. J. F. Dorrington and A. M. Ward, **1930**, 625.
- in aluminium; Spectrographic determination of —. **1935**, 12.
- in beer determined by means of $\alpha\alpha'$ -dipyridyl. G. Bode, **1934**, 116.
- in biological material; Collected references to the micro-determination of —. Z. Stary, **1933**, 304.
- in biological materials; Further studies on the availability of —. W. C. Sherman, C. A. Elvehjem and E. B. Hart, **1935**, 49.
- in biological materials; Quantitative methods for determining —. C. A. Elvehjem and E. B. Hart, **1926**, 258.
- in blood; Micro-determination of —. F. H. Smirk, **1927**, 291.
- in blood, tissues and urine; Determination of —. F. S. Fowweather, **1926**, 309.
- in chrome calf leathers; Determination of —. H. B. Merrill and R. G. Henrich, **1930**, 647.
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- in cow's and human milk; Determination of —. F. Reis and H. H. Chakmakjian, **1933**, 39.
- in leather; Identification of —. **1931**, 335.
- in liver and liver extracts. A. E. Mayer and C. Eggert, **1933**, 101; H. G. Rees, **1933**, 384.
- in natural waters; $\alpha\alpha'$ -Dipyridyl as reagent for determining ferrous and total —. H. Müller, **1934**, 305.
- in nutrition. III, Effects of diet on iron content of milk. C. A. Elvehjem, R. C. Herrin and E. B. Hart, **1927**, 166; IX, Further proof that the anaemia produced on diets of whole milk and — is due to a deficiency of copper. J. Waddell, H. Steenbock, C. A. Elvehjem, and E. B. Hart, **1929**, 556.

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- in uranium ores; Volumetric determination of uranium, vanadium, copper and —. A. S. Russell, **1926**, 268.
- in white wines; Rapid determination of —. J. Ribéreau-Gayon, **1930**, 136.
- in zinc; Colorimetric determination of small amounts of —. W. J. Agnew, **1928**, 30.
- Internal indicator for the dichromate titration of —. M. E. Weeks, **1932**, 404.
- Iodimetric determination of —. E. C. Grey, **1929**, 256; of ferric —. E. Rupp, **1932**, 59.
- iodine in organic materials rich in —; Determination of small amounts of. K. Wulfert, **1930**, 415.
- kettles tinned with tin-lead alloys. J. T. Dunn and H. C. L. Bloxam, **1930**, 34.
- lead in presence of small quantities of —; Separation and determination of. J. H. Hamence, **1932**, 622.
- materials containing a mixture of metallic — and iron oxides; Analysis of. H. C. M. Ingeberg, **1926**, 107.
- Mellor's Comprehensive Treatise on Inorganic and Theoretical Chemistry. Vol. XIII, Part 2, **1934**, 852.
- mercury in presence of —; Determination of. **1928**, 150.
- metabolism; Action of copper in —. C. A. Elvehjem and W. C. Sherman, **1933**, 46.
- metallic — in ores; Determination of. W. Ackermann, **1931**, 205.
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Separation and determination of chromium, aluminium and —. K. K. Järvinen, **1928**, 616.

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Separation of — from cobalt. P. Spacu, **1935**, 496.

Separation of aluminium and — by Chancel's method. P. L. L. Robinson and W. E. Scott, **1930**, 154.

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Separation of iridium from —. W. R. Schoeller, **1926**, 392, 455; Erratum, **1926**, 455.

Separation of mercury from —. G. Spacu, **1926**, 51.

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Vanadium in presence of chromium, tungsten and — determined by titration with ceric sulphate solution. H. H. Willard and P. Young, **1928**, 674.

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Iron Carbonyl: Determination of —. R. H. Griffith and G. C. Holliday, **1928**, 673; **1929**, 62.

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Analysis of materials containing a mixture of metallic iron and —. H. C. M. Ingeberg, **1926**, 107.

Ironbark: Woods; Chemical composition of —. Australian Division of Forest Products Technical Paper. **1933**, 345.

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Irradiated ergosterol; Differentiation of ergosterol and —. R. Meesemaeker, **1930**, 404.

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Irradiation: Growth-promoting property of irradiated fat in the diet, of direct — and of cod-liver oil. H. Goldblatt and A. R. Moritz, **1927**, 97.

Influence of — upon oxidation products of cholesterol. F. W. Schlutz, M. R. Ziegler and M. Morse, **1927**, 423.

Influence of ultra-violet — on the nutritive value of hardened oils. S. Ueno, M. Yamashita and Y. Ota, **1930**, 404.

of fats. I. Standardised method of use of ultra-violet light. L. H. Lampitt, N. D. Sylvester and P. Bilham, **1935**, 577.

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- Irvingia Butter**: G. Collin and T. P. Hilditch, 1930, 336.
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- Isoamyl Alcohol** as means of separating and identifying the alkali and alkaline earth metals. H. Yagoda, 1930, 649.
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- Isobutyl Alcohol**: Distinction of — from isoamyl and *n*-butyl alcohols, from the lower alcohols, and from amyl and butyl acetates by means of ammonium cobalthiocyanate. H. Weber, 1930, 208.
- Isocharbon**: Test for —. 1929, 59.
- Isocholesterol** of wool wax; Separation of cholesterol and —. M. R. Freney, 1934, 770.
- Iso-Electric** precipitation; Determination of casein in milk by an approximately —. H. C. Waterman, 1927, 548.
- Isoergosterol**: Reaction of —. (Studies in the sterol group. Part 8.) I. M. Heilbron and F. S. Spring, 1930, 211.
Vitamin D and —. A. van Wijk and E. H. Reerink, 1928, 667.
- Isogitoxigenin** and gitoxigenin. The digitalis glucosides. W. A. Jacobs and E. L. Gustus, 1929, 425.
- Isohydric** indicators and pure water for accurate measurement of hydrogen ion concentrations and salt errors. S. F. Acree and E. H. Fawcett, 1930, 215.
- Isomeric** amino-naphthol-sulphonic acids; Use of — for colorimetric determination of phosphate. Béla Vásárhelya, 1930, 350.
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- Isomerisation** of ergosterol by means of fuller's earth. F. G. McDonald and C. E. Bills, 1930, 711.
- Iso-Oleic Acid**: Deposition and utilisation of hydrogenation — in the animal body. A. D. Barbour, 1933, 557.
- Isopropanol**: Tests for —. H. Leffmann and C. C. Pines, 1930, 209.
- Isopropyl Alcohol**: Analysis of mixtures containing acetone, ethyl alcohol and —. C. A. Adams and J. R. Nicholls, 1929, 2.
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- Iso-propylalyl Acid**: Action of salts of mercury on —. P. Fleury, 1926, 92.
- Iso-Propyl-Antipyrine**: Crystal precipitation of —. 1934, 776.
- Isovaleraldehyde**: Menthone as reagent for —. 1929, 486.
- Italian** Mineral Waters. 1934, 310.
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- Italian Chemical Association**: Address of the Society of Public Analysts to —. 1926, 280.
- Italy**: Mineral Waters of —. (Review), 1934, 582.
- Itoyo Fish Oil**: S. Ueno and S. Komori, 1935, 706.
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- Jaffe's Reaction** for creatinine; Chemistry of —. IV, Compound of creatinine, picric acid and sodium hydroxide. I. Greenwald, 1928, 400; V, Isolation of the red compound. I. Greenwald, 1929, 60.
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Jersey: Report of the States' Analyst for — for 1933. C. P. Money, **1934**, 404; for 1934, **1935**, 405.
Jeru artichoke flakes; Analysis of —. **1930**, 129.
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Jews: Blood group percentages for Arabs, Armenians and —. E. H. R. Altounyan, **1928**, 350.
Jharia Mines Board of Health: Report for the year 1929. B. K. Mandal, **1930**, 633.
Johannestia Princeps: Seed and oil of —. G. Etzel and C. G. King, **1926**, 365.
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- marking nut ——. Experiments on the detection of. **1926**, 410.
- orange ——. Preservation of vitamin C in dried. G. J. Humphrey, **1926**, 586.
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- Kahweol**: Preparation and properties of ——. R. O. Bengis and R. J. Anderson, **1932**, 579.
- Kalamet Wood** as substitute for sandalwood. **1932**, 124, 515.
- Kaoliang Oil**: S. Ueno and R. Yamasaki, **1935**, 418.
- Kaolin** in the method for determining nontannins; Use of ——. A. Jamet, **1935**, 776.
- Kapok**: Differentiation of cotton and ——. A. Lejeune, **1926**, 265.
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- Kapok Oil**. **1926**, 465.
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- Kapok Seed Oil**: Composition of ——. R. C. Malhotra, **1932**, 785; of Philippine ——. A. O. Cruz and A. P. West, **1931**, 816.
- Karasumi Oil**. M. Tsujimoto, **1934**, 288.
- Karasu-Uri Seed Oil**: New stereoisomer of elaeostearic acid from ——. Y. Toyama and T. Tsuchiya, **1935**, 571.
- Karité Butter**: Composition of ——. J. Bougault and G. Schuster, **1931**, 669.
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- Kautschuk-Wissenschaft**: Handbuch der ——. (Review), K. Memmler and Others. **1931**, 71.
- Keene's Cement**: Specification for ——. **1934**, 758.
- Keller** method of determining nicotine in tobacco, **1927**, 16; modification of ——. **1927**, 23.
- Kemp** fibres; Examination of ——. H. Bliss, J. Duerden, J. F. Roberts, J. Blyth, H. Hirst and A. T. King, **1926**, 475.
- Kensington**: Appointment of F. W. Edwards as Public Analyst for Metropolitan Borough of ——. **1934**, 818.
- Report of the Public Analyst (F. W. Edwards), for the 1st Quarter, 1935, **1935**, 406.
- Kent**: Report of County Analyst (F. W. F. Arnaud), for the 4th Quarter, 1925, **1926**, 347; for the 1st Quarter, 1926, **1926**, 406; for the 4th Quarter, 1932, **1933**, 224; for the 4th Quarter, 1933, **1934**, 344, 405; for the 4th Quarter, 1934, **1935**, 243.
- Kentucky** coffee nut tree seed oil. C. Barkenbus and A. J. Zimmerman, **1927**, 610.
- Keratin**: egg-shell ——. Analyses of. H. O. Calvery, **1933**, 291.
- Keratins**: total sulphur in ——. Determination of. J. Barritt, **1934**, 771.
- Kernel Fat** of akarittom; Unsaturated acid in ——. II. M. Tsujimoto and H. Koyanagi, **1934**, 287.
- of some members of the *Palmae*. G. Collin, **1934**, 287.
- Kerosene**: Pitting of copper in contact with rubber and ——. **1935**, 103.
- Ketchup**: Boron compounds in tomato ——. **1929**, 18.
- Ketohexoses** distinguished from aldohexoses by the resorcinol reaction. C. Sampietro and K. Täufel, **1933**, 360.
- Ketone** rancidity of fats. I, New method of detection. K. Täufel and H. Thaler, **1932**, 466.
- rancidity; Täufel and Thaler's reaction for ——. J. Pritzker and R. Jungkunz, **1934**, 48.
- Ketones**: carbonyl in aldehydes and ——. Determination of. G. W. Ellis, **1927**, 428.
- Colour reaction of formaldehyde and —— with sodium nitroprusside and hydroxylamine. P. Pratesi, **1932**, 122.
- Detection of ——. R. Fischer, **1933**, 569.
- 2:4-Dinitrophenylhydrazine as a reagent for aldehydes and ——. Use of. O. L. Brady and G. V. Elsmie, **1926**, 77.
- Hydroxylamine method for determining ——. C. T. Bennett and T. T. Cocking, **1931**, 79.
- Identification and determination of aldehydes and ——. S. Viebel, **1928**, 53.
- in glacial acetic acid. **1926**, 285.
- Microchemical detection of ——. II. R. Fischer and A. Moor, **1935**, 124.
- Micro-method for determining semicarbazones and its application to the analysis of ——. R. P. Hobson, **1929**, 562.
- New reactions of aldehydes and ——. Synthesis of thiodiazolines from ——. A. Lacourt, **1934**, 499.
- Reduction of aromatic —— and benzils by triphenylmagnesium bromide. W. E. Bachmann, **1931**, 683.
- Ketonic** alcohols and acids; Action of Nessler's reagent on ——. G. Schuster, **1935**, 189.
- sugars; Characterisation of aldehydic and —— by oxidation with bromine. F. Zanelli, **1932**, 106.

- Ketoses:** Microscopic method of determining, —. M. Wagenaar, **1934**, 44.
- Kettles:** Iron — tinned with tin-lead alloys. J. T. Dunn and H. C. L. Bloxam, **1930**, 34.
- Kindergarten** materials; Arsenic, lead and chromium in —. E. Merres and R. Turnau, **1933**, 296.
- Kinetics** of milk catalase on heating. A. I. Burstein and F. S. Frum, **1932**, 116.
- Kingston-upon-Hull:** Appointment of D. J. T. Bagnall as additional Public Analyst for County Borough of —. **1933**, 29.
- Annual Report of the Public Analyst (A. R. Tankard) for 1925. **1926**, 625; for 1926, **1927**, 702; for 1927, **1928**, 591; for 1928, **1929**, 661; for 1929, **1930**, 630; for 1930, **1931**, 31; for 1931 and 1932, **1933**, 401; for 1933, **1934**, 819; for 1934, **1935**, 754.
- Average composition of milk in City of —. **1929**, 467.
- Kingston's Equivalent Tables.** **1931**, 624.
- Sterling Fluctuation Tables.** **1934**, 310.
- Kipper:** Formaldehyde in —. **1927**, 394.
- Kirschner Value** of rancid butters and margarines. G. D. Elsdon, R. J. Taylor and P. Smith, **1931**, 515.
- Kissling** method of determining nicotine in tobacco. **1927**, 19.
- Kjeldahl** determinations; Benzoyl auramine G as indicator for —. J. T. Scanlan and J. D. Reid, **1935**, 339.
- digestions; Direct Nesslerisation after —. H. M. Chiles, **1928**, 171.
- distillates; Use of potassium iodide and iodate method for titration —. H. F. Wilson and F. Mattingley, **1926**, 569.
- method; Determination of nitrogen by —, applied to the analysis of colouring matters and intermediates. P. Sisley and M. David, **1929**, 434.
- method for determining nitrogen in coal and coke; Selenium as a catalyst in —. H. E. Crossley, **1932**, 739.
- method for determining nitrogen; Use of selenium as catalyst in —. M. F. Lauro, **1931**, 813.
- method for determining organic nitrogen in sewage effluents, etc.; Modification of —. J. W. H. Johnson, **1926**, 405.
- method for the analysis of flour. Comparison of selenium, copper and mercury catalysts. R. A. Osborn and A. Krasnitz, **1933**, 289.
- method for the quantitative determination of nitrogen. A. Friedrich, **1933**, 568.
- nitrogen determination, and determination of non-protein nitrogen of blood. P. L. Kirk, **1935**, 642.
- Kjeldahl-Gunning** nitrogen determinations: On the presence of amines in the distillate from —. R. A. Cortner and W. F. Hoffman, **1926**, 648.
- Kjeldahl-Nessler** process for the rapid determination of nitrogen. W. H. Kitto, **1934**, 733.
- Kjeldahl-Pregl Method** applied to nitro-compounds. A. Elek and H. Sobotka, **1926**, 214.
- Knight Test** for feathers. H. F. Knight, **1928**, 278.
- Knock Ratings** of aromatic hydrocarbons. D. A. Howes and A. W. Nash, **1930**, 213.
- Knudson and Dresbach Method:** Colorimetric evaluation of *Folia digitalis* according to —. B. J. Okeloen and J. C. Timmers, **1931**, 675.
- Kodak** Research Laboratories; Abridged Scientific Publications from —. Vol. XIII. **1931**, 142.
- Kodalith:** a new photographic paper. **1932**, 200.
- Kohlenstoffes:** Mikro-Massanalytische Bestimmung des —. J. Lindner, **1935**, 728.
- Kolthoff's** colorimetric method for determining magnesium in biological fluids; Simple adaptation of —. A. D. Hirschfelder and E. R. Serles, **1934**, 423.
- Koryan Oil:** S. Ueno and R. Yamasaki, **1935**, 418.
- Koryanyl Alcohol:** **1935**, 418.
- Koryo Oil:** (Millet seed oil). S. Ueno and N. Kuzei, **1931**, 117.
- Kratom** eating in Siam. **1929**, 475.
- Physiological action of —. **1934**, 753.
- Kreis** rancidity reaction; Quantitative examination of the —. J. Pritzker and R. Jungkuntz, **1929**, 547.
- reaction as a method for detecting incipient rancidity in cacao butter. T. H. Cooke, **1929**, 411.
- reaction; Systematic examination and evaluation of the —. K. Täufel, **1931**, 541.
- reaction; Technique and evaluation of — in determining the auto-oxidative rancidity of fats. K. Täufel and P. Sadler, **1934**, 353.
- test for rancidity. W. G. Powick, **1928**, 387.
- Kriminalistik:** Unsichtbaren Strahlen im Dienste der —. (Review), G. Kögel, **1930**, 422.
- Krypton:** Atomic weight of —. **1928**, 160; **1929**, 295; **1933**, 230; **1934**, 547.
- Kuhlmann** micro-balance; Gravimetric analysis with the —. (1) Drying of precipitates. Determination of aluminium. A. Pichler, **1930**, 298.
- Kullan Nut Oil:** **1929**, 750.
- Kumanokogai:** Fatty substances of —. **1935**, 418.

L

- Label:** A misleading —. D. Henville, **1930**, 279.
- Labelling** of margarine. **1930**, 569.
- of tinned cream. **1930**, 447.
- Labels:** Misleading —. Method of dealing with. **1928**, 646.
- Laboratoriumstechnik:** Einführung in die Organisch-Chemische —. K. Bernhauer, **1935**, 130.
- Laboratory** Book of Mineral Oil Testing. (Review), J. A. Hicks, **1926**, 217.
- Companion; Standard Manual of Brewing and Malting and —. (Review), J. Ross-Mackenzie, **1927**, 370.
- emulsifier; Simple —. R. C. Smith, **1927**, 366.
- Its Place in the Modern World. (Review), D. S. Murray, **1934**, 655.
- Manual; Microchemical —. (Review), F. Emich, **1932**, 741.

Laboratory—*continued.*

- Manual of Colloid Chemistry. (Review), H. N. Holmes, **1928**, 407.
 Manual of Elementary Colloid Chemistry. (Review), E. Hatschek, **1926**, 112.
 Methods; Biochemical —, C. A. Morrow, **1928**, 66.
 ozoniser. A. L. Henne, **1929**, 685.
- La Bourboule** well water; Arsenic content of —, R. Clogne, A. Courtois and Cazala, **1930**, 456.
- Lac** and the Indian Lac Research Institute. (Review), D. Norris, P. M. Glover and R. W. Aldis, **1935**, 436.
- Lacquer**: Nitrocellulose detected in coats of —, P. Slansky, **1932**, 193.
 pigments in —. Separation and analysis of. F. H. Hopkins, **1927**, 103.
 urushiol in —; Determination of. S. Hirano, **1935**, 572, 718.
 volatile solvents and thinners of —; Separation and analysis of. R. M. Carter, **1927**, 102.
- Lacquers**: Accelerated exposure test for varnishes and —, H. V. Hansen, **1929**, 192.
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 nitrocellulose —; Analysis of. H. Anderson, **1934**, 300.
- Lactation**: Relationship between casein and period of —, **1926**, 610.
- Lactic fermentation**; Buffers for —, D. W. Steuart, **1934**, 402.
- Lactic Acid**: Acidimetric titration and composition of commercial —, R. Eder and F. Kutter, **1926**, 533.
 an inhibitor of bacterial growth. **1934**, 176.
 Determination of —, T. E. Friedemann, M. Cotonio and P. A. Shaffer, **1927**, 418; W. B. Wendel, **1933**, 712.
 in blood; Determination of —, E. Ronzoni and Z. Wallen-Lawrence, **1927**, 603.
 in blood; Gasometric method of determining —, B. F. Avery and A. B. Hastings, **1932**, 50.
 in cider. **1935**, 89.
 in fish muscle. **1934**, 699.
 in milk and milk products; Determination of —, L. H. Lampitt and M. Bogod, **1931**, 320.
 in muscle. **1926**, 143.
 in presence of other organic acids; Detection and determination of —, E. K. Nelson, **1926**, 591; F. G. Germuth, **1927**, 610.
 in sugar solutions decomposed by alkali; Determination of —, T. E. Friedemann, **1928**, 164.
 in vegetable tan liquors; Determination of —, J. H. Highberger and D. L. Youel, **1932**, 666.
 in wines and fruit juices; Determination of —, L. Semichon and Flanzky, **1932**, 721.
 in wines; Determination of —, J. H. Fabre and E. Bremond, **1932**, 110; A. Michel, **1932**, 111.
 produced by pure and mixed cultures of bacteria; Forms of —, C. S. Pederson, W. H. Peterson and E. B. Fred, **1926**, 361.
- Lactic Aldehyde**: Methone as reagent for —, **1929**, 486.
- Lactoflavine**: **1934**, 72.
- Lactose**: aerobic non-sporulating bacteria producing gas from —; Significance in oysters and water of. C. A. Perry, **1930**, 58.
 content of milk; Calculation of the approximate —, **1932**, 83.
 Determination of buttermilk or milk product in a mixed feed by determination of — present. M. R. Coe, **1928**, 441.
 in milk serum; Determination of —, **1927**, 680.
 in presence of sucrose; Volumetric determination of —, J. H. Lane and L. Eynon, **1928**, 43.
 in sweetened condensed milk; Determination of sucrose, invert sugar and —, Public Health Report No. 57. G. W. Monier-Williams, **1930**, 573.
 in urine; Practical method for the simultaneous determination of glucose and —, I. S. Kleiner and H. Tauber, **1933**, 413.
 Micro-organisms used in analysis of —, **1934**, 54.
 Oxidation of — by chloramine and iodide. **1927**, 671.
 Sucrose detected in —, M. Wagenaar, **1934**, 573.
- Laevulose** in glucides; Simple test for —, S. Tashiro and E. B. Tietz, **1930**, 520.
 in malt extract. **1928**, 586.
 in presence and absence of sucrose; Determination of small amounts of —, R. B. Whitmoyer, **1934**, 702.
 in presence of dextrose, other aldoses, or sucrose; Micro-method for detecting and determining —, F. Fischl, **1933**, 424.
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 in sweetened condensed milk; Determination of —, C. L. Hinton and T. Macara, **1931**, 286.
 Metabolism of —, with a colorimetric method for its determination in blood and urine. R. C. Corley, **1929**, 180.
 Modification of the Seliwanoff and Ihl-Pechmann reactions for —, C. I. Kruisheer, **1932**, 386.
 Oxidation of — by means of chloramine and iodide. **1927**, 674.
 Preparation of —. Analysis of Jerusalem artichokes and dahlia tubers. R. F. Jackson, C. G. Silsbee, and M. J. Proffitt, **1926**, 304.
 Quantitative determination of sucrose and —, J. Fiehe, **1932**, 385.
- Laevulosin**: Determination of —. Application to the analysis of coffee substitutes and to the problem of caramelisation. C. I. Kruisheer, **1933**, 231.
 in port wines and other sweet wines; Determination of —, C. I. Kruisheer, N. J. M. Vorstman and L. C. E. Kniphorst, **1934**, 704.
- Lager Beers**: Chemical and physical properties of light —, E. Remy, **1930**, 518.
- Lagoons** of Tuscany. (Review), R. Nasini, **1931**, 215.
- Lamb**: Chemical changes in fat of frozen —, C. H. Lea, **1931**, 538.

- Lamb**—*continued.*
Freezing storage and transport of New Zealand —. E. Griffiths, J. R. Vickery and N. E. Holmes, **1932**, 574.
- Lamp**: analytic quartz — for testing drugs; Use of. P. W. Danckwortt and E. Pfau, **1927**, 707. *See also* list of Errata.
Mercury vapour — in use for criminal investigations. **1929**, 545.
- Lancaster**: Appointment of H. Heap as Public Analyst for Borough of —. **1930**, 383.
Average composition of milk in County of —. **1929**, 467.
Report of County Analyst for the year 1925. W. C. Williams, **1927**, 28; for 1926, G. D. Elsdon, **1927**, 409; for 1928, **1929**, 465; for 1929, **1930**, 504; for 1930, **1931**, 455; for 1931, **1932**, 455; for 1932, **1933**, 342; for 1933, **1934**, 482; for 1934, **1935**, 468.
- Lanoline**: Effect of ultra-violet irradiation upon the free sterols of —. A. Bernhard and I. J. Dreker, **1931**, 756.
- Lantana Crocea**: Toxic principle of —. **1932**, 782.
- Lantern-slide making**. H. C. Bennett and R. Lee, **1932**, 200.
- Lanthanum**: Atomic weight of —. **1928**, 160; **1929**, 295; **1933**, 230; **1934**, 547.
Determination of —. H. J. Backer and K. H. Klaassens, **1930**, 650.
New colorimetric method for determining —. I. M. Kolthoff and R. Elmquist, **1931**, 417.
- Lard**: Alkaline —. **1934**, 31.
Arachidonic acid in —. J. B. Brown and E. M. Deck, **1930**, 335.
Benzoated —. **1927**, 79.
Examination of — in ultra-violet light. F. Weiss, **1929**, 178.
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from pigs fed on menhaden oil; Nature of the highly unsaturated fatty acids stored in —. J. B. Brown, **1931**, 187.
hydrogenated oils, tallow and fats of the palm-fat group in —; Preliminary tests for detecting small amounts of. A. Peter, **1935**, 182.
Luminescence of a genuine Dutch — in ultra-violet light. A. Van Druten, **1929**, 347.
Nutritive value of fatty acids of — and some of their esters. S. Lepovsky, R. A. Ouer and H. M. Evans, **1935**, 262.
oxidation and yellowing of —; Influence of salts used in curing, on the. C. H. Lea, **1934**, 555.
substitutes; Labelling of —. **1935**, 685.
- Larvae** of flies; Effect of poisons on —. K. Feist, **1927**, 243.
of honey bees; Utilisation of carbohydrates by —. L. M. Bertholf, **1928**, 47.
- Larvicides**: Mosquito —. **1933**, 348.
- Latex**: Its Occurrence, Collection, Properties, and Technical Applications. (Review), E. A. Hauser, **1930**, 601.
of *Hevea brasiliensis*; Seasonal variations in the composition of —. N. Rae, **1928**, 330, 487.
- Laundry Chemistry**. (Review), A. Harvey, **1927**, 62.
- Laurel Oil**: Fatty acids of expressed —. G. Collin and T. P. Hilditch, **1930**, 335.
- Lauric Acid** content of coconut oil and palm kernel oil as means of detecting these fats in nutrient fat mixtures. J. Grossfeld, **1928**, 603.
Detection of coconut oil and palm kernel oil by means of a test for —. J. Grossfeld and A. Miermeister, **1929**, 242.
from the kernel fat of *Actinodaphne Hookeri* Meissn. S. V. Puntambekar and S. Krishna, **1933**, 765.
Glycerides of —. A. Bömer and K. Ebach, **1928**, 603.
in alcoholic beverages; Detection and determination of —. J. Grossfeld and A. Miermeister, **1929**, 108.
in fish oils; Occurrence of —. H. G. Rees, **1933**, 222.
- Lautemann's Red**: Determination of some derivatives of phenol and of salicylic acid from the weight of —. M. François and L. Seguin, **1931**, 829.
- Lavender Oil** as anti-ferment. **1928**, 612.
- Law and Industry**. (Review), G. S. W. Marlow, **1930**, 303.
- Lawrence Smith** method of determining alkalis modified. **1929**, 224.
- Lea's Test** for rancidity in fats. **1932**, 319.
- Lead**: A reaction of —. L. Bey and M. Faillebin, **1930**, 346.
Action of water on —, with special reference to the supply of drinking water. **1934**, 346.
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alloys; Methods used in analysis of certain —. B. S. Evans, **1933**, 450.
alloys; Rapid method of dissolving — preparatory to the determination of tin and antimony. B. S. Evans, **1932**, 554.
antimony in —; Determination of traces of. **1927**, 565.
Antimony in lead alloys and — determined by means of sodium hydrosulphite. **1929**, 398.
arsenic in —; Determination of traces of. **1927**, 566.
Atomic weight of —. **1928**, 160, 289; **1929**, 296; **1934**, 414, 547.
bismuth in —. Determination of traces of. **1927**, 571.
bullion; Rapid determination of bismuth and copper in — by internal electrolysis. E. M. Collin, **1930**, 312.
Colorimetric determination of —. S. Feinberg, **1934**, 433.
compounds in atmospheric dusts; Occurrence and source of —. J. T. Dunn and H. C. L. Bloxam, **1933**, 500.
Contamination of water by —. **1934**, 283; **1935**, 38.
content of grape must and wine treated with insecticides containing —. E. Kielhöfer, **1930**, 151.

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- content of human tissues and excreta. S. L. Tompsett and A. B. Anderson, **1935**, 772.
- Determination of — as cyanide. S. Grundt, **1927**, 559.
- Determination of — with anthranilic acid. H. Funk and F. Römer, **1935**, 494.
- Determination of small quantities of —, with special reference to urine and biological materials. A. G. Francis, C. O. Harvey and J. L. Buchan, **1929**, 725.
- Drop reaction for —. **1931**, 484.
- Electrolytic determination of — as dioxide and its conversion into lead monoxide by ignition. A. J. Lindsey, **1935**, 598.
- Electrolytic separation of — as peroxide in non-ferrous alloys. I, Determination of small amounts of — in copper and copper-rich alloys. B. Jones, **1933**, 11.
- Electrolytic separation of antimony and —, and its application to the determination of — in tartar emetic. E. M. Collin and H. J. S. Sand, **1931**, 90.
- Electrolytic separation of bismuth and — with controlled potential. E. M. Collin, **1929**, 654.
- Extraction of — by means of diphenylthiocarbazon. D. C. Garratt, **1935**, 817.
- from earthenware vessels. A. Gronover and E. Wohnlich, **1932**, 662.
- gold in presence of large amounts of iron, copper and —; Determination of small amounts of. J. Donau, **1930**, 598.
- impurities in —; New processes for the determination of traces of certain. B. S. Evans, **1927**, 565.
- in acid calcium phosphate; Determination of —. D. W. Kent-Jones and C. W. Herd, **1933**, 152.
- in alloys; Alkalimetric determination of —. N. A. Tananaeff, **1935**, 428.
- in animal tissues; Determination of small amounts of —. R. Nakaseko and I. Nakano, **1926**, 46.
- in biological material; Determination of — with special reference to bone. G. R. Lynch, R. H. Slater and T. G. Osler, **1934**, 787. Erratum, **1935**, 32.
- in borax and boric acid. **1928**, 653.
- in Bordeaux and lead arsenate mixtures; Determination of —. J. C. Bubb, **1931**, 551.
- in buildings; Corrosion of —. Technical Paper No. 8. F. L. Brady, **1935**, 321.
- in cabbages. **1928**, 653.
- in calcium phosphate; Rapid determination of small quantities of —. J. R. Nicholls, **1931**, 594.
- in canned fish. H. A. Williams, **1935**, 683.
- in canned sardines; Occurrence and origin of —. L. H. Lampitt and H. S. Rooke, **1933**, 733.
- in copper; Determination of small amounts of —. B. Park and E. J. Lewis, **1935**, 495.
- in cosmetics. **1933**, 160; **1934**, 179.
- in face powders. **1932**, 655.
- in food and biological material; Bibliography on —. T. H. Pope, **1932**, 775.

Lead—continued.

- in food, beverages, etc.; Determination of minute amounts of copper and —. F. W. Richardson, **1930**, 323.
- in food-colouring materials, **1927**, 503, 529; Second Report of the Sub-Committee on —. **1935**, 541.
- in foods; Methods for determining —. H. J. Wichmann and Others, **1934**, 289.
- in fruit as a result of treatment with protecting agents. L. Lendrich and F. Mayer, **1927**, 237.
- in glass; Determination of —. P. Drawe, **1935**, 637.
- in herbage and soil of lands adjoining coke-ovens, and the illness and poisoning of stock fed thereon. J. T. Dunn and H. C. L. Bloxam, **1932**, 330.
- in iron salts; Determination of —. A. D. Powell and G. F. Hall, **1932**, 736.
- in kindergarten materials. E. Merres and R. Turnau, **1933**, 296.
- in lead tetraethyl; Determination of —. K. Dosios and J. Pierri, **1929**, 715.
- in marine crustaceans and shell fish; On the presence of — and other metallic impurities. A. C. Chapman and H. Linden, **1926**, 563.
- in organic compounds; Quantitative determination of. H. Gilman and J. Robinson, **1928**, 455.
- in organic material; New method of determining —, with special reference to dye-stuffs. N. L. Allport and G. H. Skrimshire, **1932**, 440.
- in paints, crayons and stamping inks. **1933**, 98.
- in paints for gates and railings. **1935**, 41.
- in potable waters; Determination of —. J. F. Reith and J. de Beus, **1935**, 836.
- in presence of mineral acid; Determination of —. **1930**, 319.
- in presence of phenol; Chemical corrosion of —. E. Da Fano, **1932**, 268.
- in presence of small amounts of bismuth; Separation and determination of traces of —. J. H. Hamence, I, **1933**, 461; II, **1934**, 274.
- in presence of small quantities of iron; Separation and determination of —. J. H. Hamence, **1932**, 622.
- in red glaze. A. Gronover and E. Wohnlich, **1929**, 552.
- in rocks; Determination of —. G. von Hevesy and R. Hobbie, **1932**, 404.
- in sardines. **1935**, 612.
- in soda water. **1928**, 39, 97, 653; **1929**, 747.
- in tartaric acid. (Legal Notes), **1928**, 435.
- in tartar emetic; Arsenic and —. E. Griffiths-Jones, **1926**, 201.
- in the animal organism; Behaviour of —. II, Lead tetraethyl. R. A. Kehoe and F. Thamann, **1931**, 331.
- in urine; Electrolytic determination of —. T. Cooksey and S. G. Walton, **1929**, 97.
- in urine; Excretion of —. H. Millet, **1929**, 610.
- in urine; New method for determining minute amounts of —. J. R. Ross and C. C. Lucas, **1935**, 833.

Lead—continued

- Indirect determination of —. Oxidation of hydrogen peroxide by ceric sulphate. N. H. Farman and J. H. Wallace, **1929**, 490.
- Interference of alkaline earths in the determination of —. J. Majdel, **1931**, 203.
- metallic — in metallurgical products and pigments; Determination of. D. H. McIntosh, **1927**, 104.
- Microchemical spot test for —, using dithizone. **1931**, 209.
- Micro-electrolytic determination of —. H. Brantner and F. Hecht, **1934**, 204.
- Micro-electrolytic determination of bismuth and —, and their separation by graded potential. A. J. Lindsey, **1935**, 744.
- museum objects made of —. Preservation of. **1927**, 82.
- ores; Determination of bismuth in — by internal electrolysis. E. M. Collin, **1930**, 680.
- paints; Determination of chromium oxide (CrO) in —. E. J. Davis, **1929**, 621.
- Photometric method for determining small quantities of —. B. L. Samuel and H. H. Shockley, **1934**, 306.
- Picrolonic acid as means of determining —. F. Hecht, W. Reich-Rohrwig and H. Brantner, **1934**, 130.
- poisoning. **1931**, 744.
- poisoning; A case of chronic —. H. E. Monk, **1933**, 397, 689.
- poisoning due to cider. **1933**, 758; M. C. N. and L. N. Jackson, **1932**, 792.
- poisoning from face powders. **1931**, 812.
- poisoning from tap water. W. E. Cooke, **1930**, 208.
- poisoning in children (chemical mechanism of —). T. S. Rodgers, J. R. S. Peck and M. H. Jupe, **1934**, 640.
- poisoning in industry. **1929**, 745.
- poisoning in north-east Scotland. L. S. P. Davidson and Others, **1933**, 710.
- poisoning; Mechanism and incidence of industrial —. **1927**, 53.
- Polishing and etching —, tin, and some of their alloys for microscopic examination. J. R. Vilella and D. Beregekoff, **1927**, 732.
- precipitation in the examination of fruits and jams. C. L. Hinton, **1934**, 248.
- Precipitation of — by *o*-hydroxyquinoline. V. Marsson and L. W. Haase, **1929**, 122.
- Precipitation of small amounts of — as chromate, and their accurate colorimetric determination. B. Jones, **1930**, 318.
- Quantitative separation of bismuth and —. H. Funk and J. Weinzierl, **1930**, 715.
- Quantitative separation of iron and —. H. Funk and O. von Zur-Mühlen, **1931**, 763.
- red-; Analysis of —. N. Busvold, **1932**, 268.
- reduction method for the volumetric determination of tin and the interference with it by copper and antimony. S. G. Clarke, **1931**, 82.
- Removal of — from tinned-lead tubes by tooth-pastes. V. Froboese, **1933**, 296.

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- Separation of — as chromate from mercury and from copper. H. Fink and J. Schormuller, **1931**, 133
- Separation of antimony and —. H. Biltz, **1930**, 648.
- Separation of bismuth and —. Frick and Engemann, **1929**, 617; H. Blumenthal, **1929**, 679.
- Separation of cadmium from — by means of sodium hydrosulphite. **1929**, 400.
- separation of silver and —; Rapid method for. H. Brintzinger, **1927**, 363.
- Separation of silver from —. G. Vortmann and O. Hecht, **1926**, 158, 456.
- Separation of tellurium from —. **1926**, 369.
- Separation of thallium from —. **1928**, 459.
- Separation of tin from — by means of sodium hydrosulphite. B. S. Evans, **1932**, 362.
- silver in —; Wet method for determination of. B. S. Evans, **1926**, 79.
- Simultaneous volumetric determination of bismuth and —. H. T. Bucherer and F. W. Meier, **1931**, 336.
- Sliding-gauge colorimeter, and determination of small amounts of ammonia, nitrites, iron and —. A. L. Bernoulli, **1926**, 649.
- Substitution of centrifugation for filtration and calcination in the gravimetric determination of tin and — and their alloys. M. Foà, **1927**, 364.
- sulphur in —; Determination of traces of. **1927**, 571.
- sulphur in galena and —; Determination of. H. Leysaht, **1929**, 489.
- thallium in presence of —; Rapid determination of small amounts of. F. Pavelka and H. Morth, **1932**, 804.
- tin in —; Determination of traces of. **1927**, 568.
- Volumetric method for —. I. Tananaeff, **1934**, 845.
- Lead Acetate**: acetic acid in —; Volumetric benzidine method for determining. J. E. S. Han and T. L. Chu, **1931**, 830.
- Direct titration of soluble orthophosphates with — in the presence of dibromofluorescein as adsorption indicator. A. W. Wellings, **1935**, 316.
- Elimination of phosphoric acid by — in qualitative analysis. G. G. Kandilarow, **1928**, 178.
- Microchemical test for —. **1934**, 138.
- Use of — in determining the acidity of fruit products. B. G. Hartmann and F. Hillig, **1930**, 517.
- Lead Arsenate**: Composition of commercial acid — and its relation to arsenical injury. H. S. Swingle, **1930**, 60.
- in cabbages, **1929**, 747; **1931**, 32.
- in vegetables and fruit, **1933**, 98; **1935**, 40.
- Lead and copper determined in Bordeaux and — mixtures. J. C. Bubb, **1931**, 551.
- Specifications for —. **1934**, 695.

- Lead Chloride** for clearing organic liquids in toxicological research for alkaloids. J. Magnin, **1927**, 356.
- Lead Chromate** for the oxidation of various gases. J. R. Campbell and T. Gray, **1931**, 60.
Solubility of —. M. Huybrechts and C. Degard, **1934**, 61.
- Lead Dioxide**: Analysis of —. N. Busvold, **1932**, 268.
- Lead Ethyl Petrol**: Committee of Enquiry on —. Method of lead determination devised for. **1929**, 725.
- Lead Iodide** double salt of trigonelline; New —. K. Lendrich and F. Mayer, **1931**, 326.
- Lead Monoxide**: Conversion of lead dioxide into — by ignition. A. J. Lindsey, **1935**, 598.
- Lead Peroxide** as means of measuring atmospheric sulphur pollution. B. H. Wilsdon and F. J. McConnell, **1935**, 122.
- Lead Salt** and alcohol method for determination of solid fatty acids in the original sample. W. F. Baughman and G. S. Jamieson, **1930**, 714.
- Lead Salts**: Determination of soluble —. **1933**, 332.
Titration of —. R. C. Wiley, P. M. Ambrose and A. D. Bowers, **1931**, 63.
zinc in presence of —; Determination of small amounts of. M. E. Stas, **1931**, 204.
- Lead Sulphate**: Solubility of — in water and aqueous sulphuric acid. H. D. Crockford and D. J. Brawley, **1935**, 196.
- Lead Sulphide**: Volumetric determination of mercuric chloride with —. N. A. Tananaeff and W. D. Ponomarjeff, **1935**, 495.
- Lead Tetrachloride** as a reagent for alkaloids. Microchemical characterisation of cocaine and strychnine. V. Arreguine and F. Amadeo, **1930**, 519.
- Lead Tetraethyl**: Behaviour of lead in the animal organism. II, —. R. A. Kehoe and F. Thamann, **1931**, 331.
in gasoline; Determination of —. L. J. Catlin and J. E. Starrett, **1930**, 771.
in motor fuels; Determination of —. G. Ferreri, **1926**, 104.
in motor spirit. Departmental Committee's final report. **1930**, 332.
lead in —; Determination of. K. Dosios and J. Pierri, **1930**, 715.
Poisoning by —. C. Norris and A. O. Gettler, **1926**, 209.
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Reactions of —. O. H. Browne and E. E. Reid, **1927**, 299.
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Separation of — from solution in petroleum spirit. F. W. Toms and C. P. Money, **1928**, 328.
- Leaf carotenes**. G. MacKinney, **1935**, 773.
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- Leamington Spa**: Appointment of F. G. D. Chalmers as Additional Public Analyst for —. **1933**, 91.
- Leather**: Acidity of vegetable-tanned —. W. R. Atkin and F. C. Thompson, **1933**, 110.
analysis. G. Powarnin and I. Schischiroff, **1927**, 47.
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Bibliography of Standard Methods of Analysis for — and Tanning Materials, **1927**, 83.
bookbinding —; Decay of. R. W. Frey and I. D. Clarke, **1931**, 762.
bookbinding —; Note on the deterioration of. F. P. Veitch, R. W. Frey and L. R. Leinbach, **1928**, 241.
Bookbindings; Preservation of —. R. W. Frey, and F. P. Veitch, **1931**, 559.
Chemical examination of dyed — for the presence of diamines and aminophenols. F. E. Humphreys and H. Phillips, **1932**, 290.
Chrome —. See **Chrome Leather**.
chromium in chrome-tanned —; Determination of. G. F. Smich and V. R. Sullivan, **1935**, 779.
Deterioration of vegetable-tanned — on storage. R. F. Innes, **1931**, 827.
Determination of buffer salts and acidity in the aqueous extracts of vegetable-tanned —. C. W. Davies and R. F. Innes, **1933**, 51.
Determination of strong acid and of buffer salts in vegetable-tanned —. R. F. Innes, **1934**, 770.
diamines in —; Detection of. W. Mather and W. J. Shanks, **1934**, 517.
Effect of tanned — on metals. **1933**, 229.
Examination of — for the presence of extractable chromium compounds. F. E. Humphreys and H. Phillips, **1933**, 509.
Examination of dyed — in cases of alleged dermatitis. T. Callan and N. Strafford, **1931**, 625. See also list of Errata.
fat in —; Determination of. D. Woodroffe, **1929**, 188.
Identification in small samples of — of the different minerals used in tanning. K. Kamfer, **1931**, 335.
Manufacture; Chemistry of —. (Review). T. A. Wilson, **1928**, 463; 2nd Ed., Vol. II, **1930**, 230.
Microscopical examination of —. Optical properties of tanned fibres. I, Refractive index of vegetable-tanned fibres. R. H. Marriott, **1935**, 434.
Nitrogen in —. R. W. Frey. **1927**, 47; L. Balderston, **1927**, 491.
Polluted atmosphere a factor in the deterioration of bookbinding —. F. P. Veitch, R. W. Frey and L. R. Leinbach, **1926**, 373.
sulphuric acid in vegetable —; Determination of. R. F. Innes, **1928**, 557.
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water in vegetable-tanned —; Determination of. R. F. Innes and J. G. M. Coste, **1931**, 335.
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- Leather Beetle**: Dried fish infested with larvae of —. **1933**, 758.

- Leathers:** chromium, iron, and aluminium in chrome calf —; Determination of. H. B. Merrill and R. G. Henrich, **1930**, 647.
- English bookbinding** —. R. W. Frey, L. R. Leinbach and E. O. Reed, **1929**, 364.
- Leaves:** carotene from certain — at various stages of development; Properties of. G. MacKinney, **1935**, 195.
- Comparative zinc contents of green and etiolated —. G. Bertrand and A. Andreitcheva, **1934**, 638.
- Methyl alcohol in foliage —. Relation between the alcohol and chlorophyll. M. Flanzly, **1934**, 558.
- Vitamin A content in relation to size of —. L. McLaughlin, **1929**, 764.
- Lebensmittel-Chemie:** Handbuch der —. (Review), A. Bömer, A. Juckenack and J. Tillmans. Vol. I, **1933**, 503; Vol. II, Part 1, **1934**, 440; Vol. II, Part 2, **1935**, 786; Vol. VI, **1935**, 345.
- Lebensvorgänge:** Chemische Grundlagen der —. (Review), C. Oppenheimer, **1935**, 724.
- Lecithin:** Biological distinction of egg — and plant — by means of the complement combination method. O. Mezger, H. Jesser and M. Volkmann, **1933**, 167.
- Distinction between egg-yolk and vegetable — in food-pastes. H. Kluge, **1935**, 254.
- Histochemical reaction of —. Iodophile reaction. M. Romieu, **1927**, 421.
- in blood; Colorimetric determination of cholesterol and — in connection with Folin and Wu's system of blood analysis. G. M. De Toni, **1926**, 639.
- in chocolate products; Detection of added —. W. O. Winkler and J. W. Sale, **1932**, 43.
- in egg-paste products; Supposed diminution of —. W. Diemair, F. Mayr and K. Täufel, **1935**, 254.
- in eggs; Decomposition of —. L. C. Mitchell, **1932**, 523.
- in some fats; Quantitative determination of —. E. Foy, **1931**, 464.
- liver; Fatty acids of —. R. H. Snider and W. R. Bloor, **1933**, 171.
- Phosphatid — number of egg —. F. E. Nottbohm and F. Mayer, **1934**, 182.
- preparations of animal and vegetable origin; Distinction between —. F. E. Nottbohm and F. Mayer, **1933**, 43; B. Rewald, **1933**, 412.
- Quantitative determination of cholesterol and —. Evaluation of egg products. J. Tillmans, H. Riffart and A. Kühn, **1931**, 118.
- Soya bean —. F. Rothéa and F. Nielloux, **1934**, 117.
- vegetable — in pastry; Detection of. O. Mezger, H. Jesser and M. Volkmann, **1933**, 555.
- vegetable — in noodles; Use of. H. Jesser, **1934**, 702.
- Lecithin-Phosphoric Acid** in egg liqueurs; Determination of —. J. Crossfeld, **1928**, 229.
- Leeds:** Appointment of A. Houlbrooke as Additional Public Analyst for the County Borough of —. **1934**, 30.
- Appointment of R. W. Sutton as Additional Public Analyst for County Borough of —. **1930**, 383; as Deputy Agricultural Analyst for —. **1930**, 566.
- dust; Analyses of —. **1933**, 471.
- Report of the City Analyst (C. H. Manley) for the City of — for the third quarter of 1928. **1929**, 103; for the second and third quarters, 1929, **1929**, 739; for 1929, **1930**, 751; for 1930, **1931**, 808; for 1931, **1932**, 714; for 1932, **1933**, 471; for 1933, **1934**, 539; for 1934, **1935**, 35.
- Vacation by R. W. Sutton of appointment as Additional Public Analyst for County Borough of —. **1933**, 398.
- Legal Cases:** Anglo-Celtic Shipping Co. v. Elliott and Jeffery and Others. (Liability for damage by a secret cleaning fluid.) **1926**, 185.
- Bowker v. Woodroffe. (Extract of meat and malt wine.) **1927**, 341.
- Bowker v. Woodroffe. Bowker v. Premier Drug Co., Ltd. (Standard for meat and malt wine.) **1927**, 80.
- Chivers & Sons, Ltd. v. Eastwood Cement, Ltd. **1930**, 447.
- Council of the Pharmaceutical Society of Great Britain v. Brown. (Sale of a poisonous disinfectant by grocers.) **1932**, 459.
- Dobell, G. C., & Co., Ltd. v. Barber and Garratt, **1930**, 447; **1931**, 31.
- Forster v. Star Tea Co. (Jam: Availability of warranty.) **1926**, 628.
- Greenwood v. Hannam. Sampling of milk. **1933**, 402.
- Irving's Yeast-Vite, Ltd. v. Horsenail. (Scope of rights in a trade mark.) **1934**, 173.
- Keating v. J. Lyons & Co., **1931**, 253, 398.
- M'Alister or Donoghue v. Stevenson. **1932**, 458.
- Mawston v. Pease and Partners. (Pollution of a river with colliery by-products.) **1927**, 475.
- McGovern v. Bruen (Blood grouping in a case of disputed paternity.) **1932**, 247.
- Naumann v. Radermacher, **1930**, 571.
- Paul, R. & W., Ltd. v. Wheat Commission. Middlings and the Wheat Act. **1934**, 406; **1935**, 95.
- Preston v. Jackson. (Artificial Vinegar.) **1929**, 32.
- Pure Milk & Cream Co., Ltd. (Artificial Cream.) **1929**, 542, 594.
- Rex v. Freedman (Evidence on blood groups in a trial for murder.) **1932**, 249.
- Rex v. Hale U.D.C. (*ex parte* Wright), (Prohibition of milk supply by Local Authority.) **1926**, 241.
- Rex v. Robinson Brothers, Ltd. (Flowers of Sulphur.) **1926**, 239.
- Robinson v. Sturdy. (Prussic acid in linseed meal.) **1927**, 30.
- Sharp v. Salmon and Gluckstein. **1931**, 399.
- Sharp v. Sparkes. (Sale of Medicated Wine without a licence.) **1926**, 627.

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- Taylor, J., & Sons, Ltd. *v.* Union Castle Steamship Co., Ltd. (Poisoning by castor seed.) **1932**, 381.
- Twynham *v.* Badcock. (Wholesaler's sample.) **1932**, 310.
- United States *v.* A. J. Lewis. (Adulteration and misbranding of canned tomatoes.) **1936**, 34.
- Legal Notes**: **1926**: 32, 83, 141, 185, 239, 298, 348, 408, 458, 514, 571, 627; **1927**: 29, 80, 151, 224, 281, 340, 411, 474, 533, 592, 642, 705; **1928**: 37, 93, 155, 220, 280, 336, 383, 435, 492, 534, 592, 649; **1929**: 32, 105, 156, 232, 288, 338, 418, 469, 540, 593, 663, 742; **1930**: 39, 126, 194, 326, 447, 571, 633, 687, 752; **1931**: 31, 105, 181, 253, 398, 530, 601, 659, 742, 809; **1932**: 30, 96, 163, 247, 310, 381, 458, 520, 574, 780; **1933**: 344, 402, 534, 611, 692; **1934**: 173, 346, 406, 484, 691; **1935**: 37, 95, 173, 245, 407, 469, 756.
- Lehmann Method** for determining aniline. A. V. Pamfilov and V. E. Kisseleva, **1929**, 60.
- Leicester**: Appointment of F. C. Bullock as Agricultural Analyst for County Borough of —. **1931**, 180; as Public Analyst, **1929**, 332.
- Appointment of J. G. Lunt as Deputy Agricultural Analyst for County Borough of —. **1932**, 163.
- Report of the City Analyst for the year 1926. S. F. Burford, **1927**, 592; for 1930. F. C. Bullock, **1931**, 600; for 1931, **1933**, 95; for 1932, **1934**, 31; for 1933, **1934**, 632; for 1934, **1935**, 686.
- Lemon curd**; "Home-made" —. **1933**, 33.
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- juice; Antiscorbutic fraction of —. V. S. S. Zilva, **1927**, 552; VI, **1928**, 47; VII, **1928**, 552; VIII, **1930**, 289; IX, **1931**, 285.
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- juice; Precipitation of the antiscorbutic factor from —. S. S. Zilva, **1927**, 425.
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- juice; Preparation of vitamin C concentrates from —. J. S. Svirbely and C. G. King, **1932**, 187.
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- juice; Regeneration of the reducing properties of oxidised —. S. W. Johnson, **1934**, 52.
- juice; Reversibility of the oxidation of the reducing substances in —. J. Tillmans, P. Hirsch and H. Dick, **1932**, 397.
- juice; Solubilities of the antiscorbutic factor present in —. E. B. Vedder and W. E. Lawson, **1927**, 424.
- juices; Formol titration of —. A. Niethammer, **1930**, 517.
- Non-volatile acids of the —. E. K. Nelson, **1927**, 418.

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- Lemon Cheese**: A defective certificate. (Legal Notes), **1926**, 84; S. E. Melling, **1926**, 243.
- "Home-made" —. **1930**, 686; (Legal Notes), **1929**, 105.
- Queensland regulations for —. **1927**, 31.
- Lemon Oil** as anti-ferment. **1928**, 612.
- citral in —; Determination of. C. T. Bennett and M. S. Salamon, **1927**, 692.
- citral in —; Determination of. (Essential Oil Sub-Committee Report No. 6.) **1930**, 109.
- U.S.P. regulations for —. **1935**, 620.
- Lemon Sole**: Identification of —. **1935**, 70.
- Lemonade**: Dutch regulations for —. **1932**, 19.
- powder. **1932**, 457; **1933**, 343.
- Lemongrass Oil** as anti-ferment. **1928**, 612.
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- Leprosy**: Analytical values of ethyl esters prepared from hydnocarpus oil for treatment of —. **1927**, 33.
- Drugs for treatment of —. **1932**, 332; **1934**, 753.
- Lettuce**: Unsaponifiable lipids of —. I. Carotene. H. S. Oleovich and H. A. Mattill, **1931**, 409.
- vitamin A content of head and leaf —; Relative. M. Dye, O. C. Medlock and J. W. Crist, **1927**, 552.
- iso-Leucine**: Sublimation temperature of —. **1933**, 117.
- l-Leucine**: Sublimation temperature of —. **1933**, 117.
- Lewkowitzsch's** emulsion test for unsaponified oil. **1931**, 10.
- Leys** reaction for saccharin. **1927**, 381.
- Library Association** Special Committee's Report on the quality of paper. **1931**, 602.
- Liebermann and Burchard Reaction**: Mechanism of —. Application to the differentiation of animal from vegetable sterols. R. Meesemaeker and H. Griffon, **1930**, 588.
- Liesegang Rings**: Methods of analysis for determining silver, chromate, etc., in gelatin or agar gel. E. B. Hughes, **1935**, 309.
- Life**: Aspects of Age, — and Disease. Sir H. Rolleston, **1929**, 130.
- Light**: Action of — on fats. C. H. Lea, **1933**, 425.
- Action of neon — on bacteria. A. Philibert and J. Risler, **1927**, 97.
- Effect of — on the determination of ethylene. J. L. Oberseider and J. H. Boyd, **1931**, 413.
- Effect of heat and — on the formation of vitamin A in plant tissues. K. H. Coward, **1927**, 355.
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- Ultra-violet —. See **Ultra-Violet**.
- Lighting** gas; Direct determination of nitrogen in heating and —. W. Steuer, **1927**, 47.
- Lignin**: Determination of —. Parts 1 and 2. A. G. Norman and S. H. Jenkins, **1935**, 336.
- Determination of — in Australian timbers. W. E. Cohen, **1935**, 474.
- determination; Study of —. **1932**, 103.
- in plant materials; Determination of —. M. Phillips, **1932**, 402.
- in woods; Distribution of —. G. J. Ritter, **1926**, 60.
- Methods of investigating —. (Review), W. Fuchs, **1931**, 422.
- Lignoceric Acid** in hardened arachis oil mixtures; Determination of the molecular weights of the higher saturated fatty acids and its use in determining —. J. Grossfeld, **1930**, 138.
- Oxidation of —. F. A. Taylor and P. A. Levene, **1929**, 113.
- Lignone Sulphonates**: Qualitative reaction for detecting — (sulphite waste liquor). A. Tingle, **1935**, 86.
- Lilies**: Pigments of the pollen of certain —. **1932**, 781.
- Lima** beans; Hydrogen cyanide in —. II, Influence of heat on the poisonous properties of the beans. S. K. Hagen, **1930**, 453.
- Lime**: Agricultural —. **1935**, 244.
- alkalinity in commercial —; Determination of available. C. M. Jovellanos, **1930**, 220.
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- in ground pepper; Rapid test for an excessive amount of —. W. Pahl, **1928**, 103.
- in hydraulic cement; Determination of free —. Building Research Paper No. 4. F. L. Brady and F. J. McConnell, **1927**, 344.
- in Portland cement; Determination of uncombined —. W. Larch and R. H. Bogue, **1926**, 480.
- in soil solutions; Rapid determination of small quantities of —. H. Beutelspacher, **1934**, 361.
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- Lime Water**: Preservation of eggs in —. **1931**, 384, 387; J. Miller, **1927**, 457.
- Limestone**: Calcium and magnesium in Dolomitic — determined by means of saccharate solutions. A. C. Shead and B. J. Heinrich, **1931**, 65.
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- Linaloe Oil**: Mexican and Indian —. W. H. Simmons, **1935**, 116.
- Linen**: Effect of dyes on tendering of —. **1934**, 413.
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- Fastness of vat dyestuffs on —. **1933**, 228.
- Ling**: Identification of —. **1935**, 70.
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- Analysis of —. T. McLachlan, **1935**, 685.
- Liniments**: Isopropyl alcohol in — detected by means of piperonal. G. Reif, **1931**, 115.
- Linolenic Acid**: Analysis by means of the thiocyanogen value of fats containing —. Analysis of linseed oil. H. P. Kaufmann and M. Keller, **1929**, 304.
- Analysis of oils containing —. I, Composition of chrysalis oil. W. Kimura, **1930**, 645.
- Attempted isolation of — from the unsaturated fatty acids of linseed oil, **1932**, 233.
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- Iodine value of — by the Wijs and Rosenmund-Kuhnemann methods. Y. Toyama and T. Tutiya, **1935**, 334.
- Oleic-elaidic acid transformation as an aid in the analysis of mixtures of oleic, linolic and —. H. N. Griffiths and T. P. Hilditch, **1934**, 363.
- Linolenic Bromide**: Reduction of linolic and — and re bromination of the free acids. F. L. Smith and A. P. West, **1927**, 359.
- Linolenic Hexabromide**: Salts of —. P. R. Almoradio, **1927**, 656.
- Salts of — from lumbang oil. G. A. Imperial and A. P. West, **1927**, 247.

- Linolic Acid:** Constitution of —. J. L. Riebsomer and G. A. Nesty, **1934**, 830.
 content of butter-fat. H. C. Ekstein, **1934**, 184.
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 Iodine value of — by the Wijs and Rosenmund-Kuhnhehn methods. Y. Toyama and T. Tutiya, **1935**, 334.
 Oleic-elaidic acid transformation as an aid in the analysis of mixtures of oleic, linolenic and —. H. N. Griffiths and T. P. Hilditch, **1934**, 363.
- α -Linolic Acid Tetrabromide:** Salts of —. A. T. Oreta and A. P. West, **1927**, 608.
- Linolic Acids** and their oxidation by per-acids. W. G. Smit, **1930**, 525.
- Linolic Bromide:** Reduction of linolenic and — and rebromination of the free acids. F. L. Smith and A. P. West, **1927**, 359.
- α -Linolic Tetrabromide:** Salts of — from candlenut (lumbang) oil. C. M. Jovellanos and A. P. West, **1928**, 111.
- Linolic Tetrabromides** from Philippine lumbang oil; An odoriferous oil and two new —. S. Santiago and A. P. West, **1927**, 300.
- Linseed:** Quantitative determination of powdered —. H. Saber, **1935**, 258.
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- Linseed Oil:** Analysis of —. Analysis by means of the thiocyanogen value of fats containing linolenic acid. H. P. Kaufmann and M. Keller, **1929**, 304.
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- Lintner Method:** Preparation of soluble starch and an improved polarimetric —. H. C. Gore, **1928**, 613.
- Lipase** in adipose tissue; Relative concentration of esterase and —. J. S. Hepburn and H. McD. Moore, **1934**, 292.
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- Lipases** of wheat. I. B. Sullivan and M. A. Howe, **1933**, 169.
- Lipids:** Determination of acetyl value of —, applicable to hydroxylated fatty acids. E. S. West, C. L. Hoagland and G. H. Curtis, **1934**, 429.
 iodine value of —; Determination of. M. Yasuda, **1932**, 182.
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- Lipins** in flour. **1933**, 229.
- Lipoid Phosphorus** in blood; Colorimetric determination of —. A. R. Harnes, **1928**, 392; S. L. Leiboff, **1929**, 50.
- Lipoid-Protein Ratio:** Relation of the magnesium in the ash and the — to the quality of wheats. B. Sullivan and C. Near, **1927**, 244.
- Lipoids:** Definition of —. **1928**, 41.
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- Liqueurs:** chocolate-; Sale of — without a licence. (Legal Notes), **1928**, 280.
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- Liquid Systems;** Photo-Processes in Gaseous and —. (Review), R. O. Griffith and A. McKeown, **1930**, 72.
 "wettability" of a solid by a —; Determination of the. E. F. Bartell and H. J. Osterhof, **1928**, 61.
- Liquides:** La Tension de Vapeur des Mélanges de —. M. Lecat, **1933**, 126.
- Liquids:** carbon in dilute organic —; Determination of. O. Kauffmann-Cosla, **1927**, 45.
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Liquor Strychninae Hydrochloridi: Volumetric determination of —. J. Rae, **1928**, 606.

Liquorice: Adulteration of — with masticogna. P. Casparis, **1926**, 465.

root and extract; Studies in —. IV, New substance in Chinese — root. P. A. Houseman and C. K. Swift, **1930**, 51.

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Detection and determination of small quantities of —. E. R. Caley, **1930**, 597.

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Separation of — from potassium, sodium and magnesium. L. Moser and K. Schutt, **1929**, 370 (See also list of Errata); A. Sinka, **1930**, 598.

Use of metallic — in the determination of nitrogen, etc., in inert gases. J. H. Severyns, E. R. Wilkinson and W. C. Schumb, **1932**, 796.

Lithium Aluminate: Formation of —. J. T. Dobbins and J. P. Sanders, **1932**, 197.

Lithopones: X-ray examination of —. W. A. Wood, **1930**, 657.

Liver and liver extracts; Notes on the occurrence of iron and copper in —. H. G. Rees, **1933**, 384.

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Liver Oils and concentrates; Antimony trichloride colour test and the ultra-violet absorption of —. A. E. Gillam and R. A. Morton, **1931**, 822.

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Colour reaction of the Japanese acid clays with — and vitamin A on the market. K. Kobayashi and K. Yamamoto, **1927**, 553.

New conception of the chromogenic constituents of fresh and aged —. Specificity in tests for vitamin A. I. M. Heilbron, A. E. Gillam and R. A. Morton, **1931**, 823.

Relative vitamin A value of the body and — of certain fish. B. Ahmad and J. C. Drummond, **1930**, 403.

Spectrographic data concerning vitamin A and —. R. A. Morton, I. M. Heilbron and A. Thompson, **1931**, 470.

Vitamin A content of the unsaponifiable matter of —. I. S. Meno, M. Yamashita and Y. Ota, **1929**, 54.

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Liverpool: Appointment of C. F. Turner as Additional Public Analyst for —. **1933**, 398.

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Livers of different animals; Ascorbic acid content of —. J. L. Svirbely, **1933**, 632.

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Logarithm: The Natural —. (Review), Sir C. V. Boys, **1935**, 436.

- Logarithms**: Analytical Factors and their —. (Review), E. R. Caley, **1933**, 312.
 non-interpolating —, Cologarithms and Antilogarithms. (Review), F. W. Johnson, **1931**, 426.
- Logwood**: Colour reactions of —. A. A. Wilson and J. N. Bennett, **1928**, 454.
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- London**: Appointment of A. E. Brown as Agricultural Analyst for City and Port of —. **1930**, 277.
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 Report of the City Analyst for — for 1933. A. J. C. Lickorish, **1935**, 36.
 Report of the Medical Officer of Health for the year 1925. W. J. Howarth, **1926**, 412; for 1926, **1927**, 477.
- Loretin**: Microchemical reactions with —. C. Van Zijp, **1932**, 801.
- Lovibond** colour system. I, A spectrophotometric analysis of the Lovibond glasses. K. S. Gibson, F. K. Harris and I. G. Priest, **1928**, 460.
 colour system; New colorimeter based on the — and its application to the testing of cod-liver oil, and other purposes. O. Rosenheim and E. Schuster, **1928**, 179.
 values of the liver-oils of various animals, and growth promotion of different vitamin preparations. P. Karrer, H. von Euler and K. Schöpp, **1932**, 327.
- Low-Temperature** thermostat; Automatic —. O. Maas, and W. H. Barnes, **1927**, 252.
- Low's** short iodide method for copper; Modification of —. H. F. Bradley, **1929**, 63.
- Lubricants**: Analysis of Oil for Production of —. (Review), A. A. Ashworth, **1934**, 442.
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- Lubricating** and Allied Oils. 2nd Ed. (Review), E. A. Evans, **1933**, 426.
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- Lubrication** and Lubricants. (Review), L. Archbutt and R. M. Deeley, **1927**, 562.
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- Lucinal**: Action of salts of mercury on —. P. Fleury, **1926**, 92.
- Lumbang Oil**: An odoriferous oil and two new linolic tetrabromides from Philippine —. S. Santiago and A. P. West, **1930**, 300.
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- Luminal**: Characteristic reactions of —. F. Ranwez, **1926**, 203.
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- Luminal**—*continued*.
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- Luminescence** of a genuine Dutch lard in ultra-violet light. A. Van Druten, **1929**, 347.
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- Lumineszenz** Analyse im Filtrierten Ultravioletten Licht. 3rd Ed. (Review), P. A. Danckwortt, **1935**, 68.
- Lunacrine**: Microchemical identification of —. **1933**, 117.
- Lunasin**: Microchemical identification of —. **1933**: 117.
- Lunge and Keane's** Technical Methods of Chemical Analysis. 2nd Ed. Edited by C. A. Keane and P. C. L. Thorne. (Review), **1929**, 66; Vol. III, **1931**, 769.
- Lungs**: Silica content of —. A. F. Sladdens, **1933**, 775.
- Lupine** alkaloids; Relative toxicity of the —. J. F. Couch, **1926**, 361.
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- Mace** butter; Fatty acids of —. G. Collin and T. P. Hilditch, **1930**, 335.
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- Mace Oil** as anti-ferment. **1928**, 612.
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- Macro Test** for nitrous acid. J. V. Dubský, J. Trtílek and A. Okáč, **1935**, 200.
- Madar** Juice poisoning. **1931**, 665; **1932**, 717; **1934**, 37, 542; **1935**, 759.
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- Madras**: Food standards for —. H. Hawley, **1927**, 156.
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- Magdala Red** as reagent for detecting nitrites. H. Eichler, **1934**, 303; **1935**, 274.
- Magnesia**: Definition of —. **1929**, 468; **1935**, 468.
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- Magnesium alloys**; Analysis of —. L. C. Nickolls, **1934**, 16.
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- Colorimetric determination of —. L. Debucquet and L. Velluz, **1934**, 200.
- Colour reactions for —. W. J. Petraschenj, **1927**, 569; I. M. Kolthoff, **1930**, 769.
- Co-precipitation of — with aluminium precipitates. A. Lassieur, **1926**, 368.
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- Determination of — with 8-hydroxyquinoline. H. B. Knowles, **1935**, 777.
- Determination of — with 8-hydroxyquinoline—gravimetrically, volumetrically and colorimetrically. A. W. Hough and J. B. Ficklen, **1931**, 206.
- Diphenylthiocarbazine for detecting —. P. Agostini, **1932**, 64.
- Drop reaction for —. **1931**, 484.
- Effect of pH on precipitation of — from acetate solutions. H. R. Fleck and A. M. Ward, **1933**, 388.
- electrometric determination of —; Use of the antimony electrode in. B. B. Malvea and J. R. Withrow, **1932**, 539.
- for Grignard reagents. N. W. Cusa and F. S. Kipping, **1934**, 713.
- Improved method for determining — by means of *o*-hydroxyquinoline. F. L. Hahn, **1931**, 833.
- in biological fluids; Simple adaptation of Kolthoff's colorimetric method for determining —. A. D. Hirschfelder and E. R. Serles, **1934**, 423.
- in blood determined by means of 8-hydroxyquinoline. D. M. Greenberg and M. A. Mackey, **1932**, 730.
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- Influence of — upon the detection of potassium by zirconium sulphate. R. D. Reed and J. R. Withrow, **1929**, 370.
- Micro-detection of — with alkannin and naphthazarin. J. V. Dubský and E. Wagner, **1935**, 641.
- Micro-determination and separation of calcium and —. K. L. Maljaroff, **1932**, 64.
- Micro-determination of — by means of hydroxyquinoline. G. Glomaud, **1934**, 205.
- Micro-determination of — with *o*-hydroxyquinoline, and its separation from calcium. R. Strebinger and W. Reif, **1930**, 297.
- Oxalate method of separating calcium and —. W. T. Hall, **1929**, 65.
- Oxyquinoline as reagent for zinc, aluminium and —. F. L. Hahn and K. Vieweg, **1927**, 431.
- Pyrophosphate method of determining phosphoric anhydride and —. A. W. Epperson, **1928**, 239.
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- Separation of lithium from —. L. Moser and K. Schutt, **1929**, 370 (see also list of Errata); T. Gaspar y Arnal, **1933**, 421.
- Separation of phosphoric acid, calcium and magnesium. H. Brintzinger and E. Jahn, **1934**, 646.
- Specific colour reaction for — and a colorimetric method for determining traces of —. I. M. Kolthoff, **1927**, 430.
- Titan yellow as reagent for — in micro-chemistry of plants. H. Eilers, **1928**, 239.
- Magnesium Ammonium Arsenate**: Determination of arsenic pentoxide as —. W. M. McNabb, **1927**, 494.

- Magnesium Ammonium Phosphate:** Determination of phosphoric acid as —. G. Jørgensen, **1926**, 61.
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- Magnesium Chloride** solutions; Volumetric determination of magnesium in —. J. E. W. Rhodes, **1927**, 365.
- Magnesium Citrate:** Solution of —. **1930**, 131.
- Magnesium Hydroxyquinolate** in presence of calcium oxalate; Precipitation and determination of —, and its application to the analysis of Portland cement. J. C. Redmond, **1933**, 781.
- Magnesium Oxalate:** J. Haslam, **1935**, 668.
- Magnesium Oxide:** Differentiation between light and heavy —. H. Wales and G. L. Keenan, **1934**, 763.
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- Magnesium Salts:** magnesium in pure —; Colorimetric determination of. J. Tischer, **1933**, 247.
- Magnesium Uranyl Acetate** method of determining small amounts of sodium. E. R. Caley, **1932**, 273.
- Magnetism:** Constants and Numerical Data; Annual Tables of —. (Review), **1927**, 175.
- "Magnocid" (basic magnesium hypochlorite):** Relative effectiveness of — as disinfectant, **1926**, 259.
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- Mahapatta Bark** as fish poison. **1935**, 472.
- Mahogany:** Identification of white —. **1932**, 102.
- Mahweg Berries** reputed to be a remedy for diabetes. **1932**, 313.
- Maize:** Comparative biological value of proteins of whole wheat, whole — and — gluten. M. A. Boas-Fixsen, J. C. D. Hutchinson and H. M. Jackson, **1934**, 557.
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- Malachite Green:** Volumetric analysis of — with titanous sulphate and titanous chloride solutions. H. Wilkinson and A. G. Tyler, **1927**, 362.
- Malaria:** Drugs used in treatment of — detected in the urine. R. Green, **1930**, 640.
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- Malayan Aleuries montana;** Oil from —. T. H. Barry, **1932**, 85.
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- l-Malic Acid** in fruits and fruit products; Determination of —. C. G. Hartmann and F. Hillig, **1933**, 40.
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- Diastatic power of — determined by potassium ferricyanide titration. F. W. Norris and W. A. Carter, **1935**, 415. •
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 meat and — wine; Extract of. (Legal Notes: Bowker v. Woodroffe), **1927**, 341.
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 Prediction of the extract of — by Bishop's barley formula. W. J. Mitchell, **1932**, 464.
 Products. Merchandise Marks (Imported Goods) No. 5 Order, 1930, No. 366. **1931**, 45.
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- Malt Vinegar**: Definitions of —. **1935**, 2.
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- Malted milk**; Determination of fat in —. E. S. Rose, **1927**, 92.
- Malting**: A Standard Manual of Brewing and — and Laboratory Companion. (Review), J. Ross-Mackenzie, **1927**, 370.
- Maltol** and its colorimetric determination in malt coffee. T. Merl, **1930**, 760.
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- Maltose**: Micro-organisms used in analysis of —. **1934**, 54.
- Mammalian** blood; Presence of glutathione in the corpuscles of —. H. F. Holden, **1926**, 95.
- Mammy Apple** seed and oil. G. S. Jamieson and R. S. McKinney, **1931**, 603. •
- Manchester Yellow** in foodstuffs; Detection of —. **1927**, 585.
- Mandibulate Insects**: Quantitative toxicological investigations on —. F. L. Campbell, **1926**, 313.
- Manganese**: Absorption of — by plants. C. Olsen, **1934**, 707.
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 content of milk, beef, and certain other foods. G. Büttner and A. Miermeister, **1933**, 615.
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 content of plant and animal materials. C. W. Lindow and W. H. Peterson, **1928**, 43.
 content of some Australian timbers. W. E. Cohen and A. B. Jamieson, **1933**, 635.
 copper in presence of —; Determination of minute amounts of. **1932**, 499.
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 Determination of — as manganese ammonium phosphate. P. Nuka, **1932**, 197.
 Determination of — as pyrophosphate. D. Balarew and N. Desew, **1927**, 364.
 Determination of — by means of persulphate. R. G. Harry, **1932**, 197.
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 in cane sugar and maple sugar; Presence of —. P. Riou and J. Delorme, **1935**, 711.
 in flour and bread; Colorimetric determination of —. P. Bruère, **1934**, 492.
 in food and biological material; Bibliography on —. T. H. Pope, **1933**, 91.
 in foodstuffs. C. Newcomb and G. Sankaran, **1929**, 348; A. E. Boycott and G. R. Cameron, **1931**, 55.
 in plant materials; Colorimetric method for determining —. J. Davidson and R. G. Capen, **1932**, 56.
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- Iodimetric determination of chromium and — with persulphate. J. H. van der Meulen, **1932**, 335.
- lead in copper alloys containing —; Determination of small amounts of. **1933**, 21, 22.
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- separation and determination of —; General method for. J. Majdel, **1930**, 649.
- Separation of — as peroxide from other metals. K. A. Jensen, **1932**, 125.
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- Separation of zinc from —. **1933**, 637.
- Separation of zinc, cobalt, nickel and iron from —. E. H. Swift, R. C. Barton and H. S. Backus, **1933**, 53.
- Storage of copper and — in the animal body and its influence on haemoglobin building. R. W. Titus and J. S. Hughes, **1929**, 609.
- Use of zinc oxide in determining —. J. I. Hoffman, **1932**, 273.
- Volumetric determination of —. J. Leroide and A. Bruiliet, **1935**, 573.
- Volumetric determination of — after oxidation by periodate. H. H. Willard and J. J. Thompson, **1931**, 831.
- Volumetric determination of — as dioxide. I. M. Kolthoff and E. B. Sandell, **1929**, 769.
- Volumetric determination of — by conversion into manganic salt. R. Lang, **1935**, 718.
- Manganese Ammonium Phosphate**: Determination of manganese as —. P. Nuka, **1932**, 197.
- Manganese Salts**: Effect of zirconium, titanium and — on nutrition. Richet, Garner and Goodbody, **1926**, 98.
- Manganese Steels**: vanadium in —; Determination of. **1928**, 428.
- Manganic Salt**: Volumetric determination of manganese by conversion into —. R. Lang, **1935**, 718.
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- Mannitol**: Precipitation of — by metallic hydroxides in alkaline media. **1932**, 783.
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- Manufacturer's** liability for injurious defects in his products. (Legal Notes: M'Alister or Donoghue v. Stevenson), **1932**, 458.
- Manure**: Stanley's wool —. **1933**, 225.
- Manures**: ammoniacal nitrogen in —; Determination of. F. Chastellain, **1926**, 261.
- and Soils; The Science of —. (Review), J. A. Murray, **1926**, 115.
- nitrogen-bearing chemicals added to animal or vegetable nitrogenous —; Detection and determination of. H. C. More and R. White, **1927**, 298.
- poultry —; Value of. **1935**, 243.
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- Marc Wine**: Methyl alcohol in alcohol from —. M. Flanzly, **1934**, 553.
- Mare's** milk; Composition of the fat of —. O. Laxa, **1928**, 100.
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- butter fat in —; Determination of. G. D. Elsdon and P. Smith, **1926**, 72; **1927**, 63.
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- butter in —; Determination of. L. V. Cocks and E. Nightingale, **1928**, 322.
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- Egg-yolk —. E. Vollhase, H. J. Steinbeck and E. Danielsen, **1930**, 137.
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- Labelling of —. **1930**, 569.
- Mineral oil in —. An invoice warranty. (Legal Notes), **1926**, 459.
- palm kernel oil in —; Determination of. G. D. Elsdon and P. Smith, **1926**, 72. *See also* list of Errata.
- Reichert, Polenske and Kirschner values of rancid —. G. D. Elsdon, R. J. Taylor and P. Smith, **1931**, 515.
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- Vitamin A content of naturally coloured nut —. C. F. Poe and H. A. Fehlmann, **1933**, 415.
- vitamin A in —; Test for. A. Anderson and E. Nightingale, **1929**, 431.
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- Margarines**: sorting of butters and —; Rapid method for. C. H. Manley, 1927, 67.
- Margaric Acid**: Composition of neem oil. The so-called —. A. C. Roy and S. Dutt, 1930, 50.
- Marine animal oils**. Oil of *Centrophorus granulosus*. E. André and H. Canal, 1929, 606.
- animal oils; Selective adsorption in the examination of the unsaponifiable matter of —. T. Thorbjarnarson, A. Santos Ruiz and J. C. Drummond, 1935, 382.
- animal oils; Some characteristic features of the glycerides present in —. T. P. Hilditch, 1935, 568.
- animal oils; Thiocyanogen value of —. Y. Toyama and T. Tsuchiya, 1930, 292.
- animal oils; Unsaponifiable matter determined in —. E. R. Bolton and K. A. Williams, 1932, 25.
- animals; Sterols from muscular tissue of —. 1929, 36, 37.
- crustaceans and shell fish; On the presence of compounds of arsenic in —. A. C. Chapman, 1926, 548.
- crustaceans and shell fish; On the presence of lead and other metallic impurities in —. A. C. Chapman and H. Linden, 1926, 563.
- products; Contributions to the study of —. III, Chemistry of ostreasterol. W. Bergmann, 1934, 426.
- products; Formaldehyde in canned —. G. Lunde and E. Mathiesen, 1934, 759.
- products; Formaldehyde in certain —. D. B. Dill and P. B. Clark, 1926, 304.
- products; Tin corrosion and blackening in certain —. D. B. Dill and P. B. Clark, 1926, 413.
- Marjoram**: Microscopical examination of —. 1934, 744.
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- Martius Yellow** in foodstuffs; Detection and identification of —. 1927, 585; 1928, 420.
- Marzipan** and its substitutes. O. Keller, 1927, 716.
- Marzipan**—continued.
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- Massanalyse, Die** —. (Review), I. M. Kolthoff. Part 1, 1927, 663; 2nd Ed., 1930, 660; Part 2, 1931, 842.
- Masticogna**: Adulteration of liquorice with —. P. Casparis, 1926, 465.
- Masurium**: Atomic weight of —. 1929, 295.
- Matamel**: Analysis of —. 1928, 162.
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- Mathieu and Ferré** formula for milk. 1932, 456.
- Matter**: General Properties of —. 2nd Ed. (Review), F. H. Newman and V. H. L. Searle, 1933, 312.
- New Conceptions of —. (Review), C. G. Darwin, 1932, 413.
- Mauritius**: Tobacco from —. 1926, 482.
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- Meat**: Albuminous compounds from — of different animals. K. Beck and E. Caspar, 1929, 238.
- and meat products. U.S. Food Inspection Decision No. 205. 1927, 348.
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- Food Investigation Board Report on —. **1929**, 35.
- Frozen and chilled —; Chemical changes in. C. H. Lea; I, Frozen mutton and lamb. **1931**, 538; II, Chilled beef. **1931**, 610; III, Frozen bacon. **1931**, 759; Part V, **1933**, 288.
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- Proteins of —. E. C. Bate Smith, **1935**, 485.
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- Storage of — in carbon dioxide. **1934**, 697.
- Storage of — in small refrigerators. Food Investigation Report No. 43. R. B. Haines and E. C. Smith, **1934**, 175.

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- Water-protein ratio of lean —, and its bearing upon the analysis of sausages. F. W. Jackson and O. Jones, **1932**, 562.
- wine deficient in meat extract. (Legal Notes), **1926**, 460.
- Meat and Bone Meal**: Analysis of —. G. A. Lawrence, **1935**, 611.
- Water in —. J. G. Sherratt, **1935**, 170.
- Meat and Malt Wine**: Extract of —. (Legal Notes: Bowker v. Woodroffe), **1927**, 341.
- Non-alcoholic —. (Legal Notes), **1926**, 514.
- Standard for —. (Legal Notes: Bowker v. Woodroffe. Bowker v. Premier Drug Co., Ltd.), **1927**, 80.
- Mechanical analysis of New Zealand soils**. R. E. R. Grimmett, **1926**, 420.
- analysis of soils. Report and recommendations of Agricultural Education Association Sub-Committee, **1926**, 211.
- Meconic Acid**: Bromine as a reagent in determining —. **1931**, 728.
- Medical aspect of tobacco**; An address on the —. H. Rolleston, **1926**, 319.
- General — Council. Pharmacopoeia Commission reports, **1932**, 31.
- Hydrology; International Society of —. **1929**, 33; **1931**, 745, 776.
- Jurisprudence; Taylor's Principles and Practice of —. (Review), S. Smith and W. G. H. Cook, **1935**, 643.
- Trials; Some Famous —. (Review), L. A. Parry, **1927**, 665.
- Medical Officer of Health for the City of London**; Report for the year 1925. W. J. Howarth, **1926**, 412; for 1926, **1927**, 477.
- Medical Research Council Reports**: Report for the year 1926–27, **1928**, 285; for 1933–34, **1935**, 247.
- A Standard for the antirachitic vitamin D. **1930**, 692.
- Chemistry of flesh foods and their losses on cooking, No. 187. R. A. McCance and H. L. Shipp, **1934**, 548.
- Determination of iodine in biological substances, No. 201. C. O. Harvey, **1935**, 762.
- Further studies of the salmonella group, No. 103. **1926**, 632.
- Methods of investigating ventilation and its effects. **1926**, 190.
- Toxicity tests for novarseno-benzene (neosalvarsan), No. 128. E. H. Durham, J. H. Gaddum and J. E. Marchal, **1929**, 667.
- Medical Research Institute, Malay States**: Report for the year 1925. R. W. Blair, **1927**, 158; for 1927, **1929**, 290; for 1928, **1930**, 580.
- Medicament**: Banisterine, a new —. L. Lewin, **1928**, 389.
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- Medicinal charcoal**; Test for the activity of —. H. Brindle, 1928, 500.
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 substances; Determination of bismuth in —. J. Gonzalez-Carrero, 1935, 626.
 Waters; International Register of Spas and —. 1931, 745, 776.
- Medicine**: Chemical Methods in Clinical —. (Review), G. A. Harrison, 1931, 346.
 Chemistry in —. (Review), 1929, 312.
 Clinical Chemistry in Practical —. (Review), C. P. Stewart and D. M. Dunlop, 1932, 279.
 Colloid Chemistry. Vol. II, Biology and —. (Review), Ed. by J. Alexander, 1929, 263.
 Crystallographic examination of the micro-sublimates of synthetic compounds used in —. W. Haas, 1931, 136.
 Group-specific substances in forensic —. R. B. Lloyd, 1932, 262.
 Micro-methods of determining proteins in —. A. Wasitzky, 1934, 303.
 Micro vacuum sublimation of synthetic compounds used in —. R. Eder and W. Haas, 1931, 135.
 Students of Biology and —; Practical, Physical and Colloid Chemistry for. 2nd Ed. (Review), L. Michaelis, 1926, 221.
 Studies in clinical and experimental —. 1928, 285.
 Textbook of Biochemistry for Students of Science and —. (Review), A. T. Cameron, 1928, 358.
 Yogurt as a dietetic food and —. T. Stathopoulos, 1926, 414.
- Medicines**: Nitrobenzaldehyde as reagent for organic —. H. W. Van Urk, 1929, 424.
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 Reaction for distinguishing primary cyclic amines and its application to —. J. A. Sanchez, 1932, 391.
- Medico-Legal** significance of blood groups. F. Schiff, 1930, 59.
- Melcitose** in linden dew honey. F. E. Nottbohm and F. Lucius, 1929, 670.
- Mellilotic Acid** in *Mellilotus officinalis*; Determination of —. S. J. Kanewskaja and A. M. Fedorowa, 1933, 624.
- Mellilotus Officinalis**: coumarin and mellilotic acid in —; Determination of. S. J. Kanewskaja and A. M. Fedorowa, 1933, 624.
- Melon**: Sugar content of water-melons and other types of —. S. N. Lutochin, 1928, 101.
- Melting-Point** apparatus; New —. J. R. Hosking and W. F. Short, 1926, 270; F. Kerchow, 1929, 309.
- Melting-Point**—*continued.*
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 New apparatus for the determination of corrected —. C. Junge, 1930, 225.
 Phosphoric acid for determining —. F. D. Snell, 1930, 656.
- Membranes**: collodion-; Investigations into the standardisation and calibration of —. I. C. Lundsgaard and S. A. Holbil, 1926, 428.
 diffusion of gases and vapours through —; Apparatus for measuring. E. E. Schumacher and L. Ferguson, 1927, 253.
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 Nitrocellulose — of graded permeability. H. F. Pierce, 1928, 114.
- Menhaden Oil**: Nature of the highly unsaturated fatty acids stored in the lard from pigs fed on —. J. B. Brown, 1931, 187.
- Meniscus** corrections involved in the calibration of graduated tubes. A. More, 1929, 630.
- Mental Efficiency**: The smoking habit and —. J. R. Earp, 1926, 319.
- Menthol**: Bactericidal efficiency of camphor and —. L. Gershenfeld and R. E. Miller, 1934, 55.
 dermatitis; Alleged —. (Legal Notes), 1930, 753.
- Menthols**: Antiseptic value and toxicity of antiseptic —. 1933, 236.
- Mentholum Valerianicum**: Preparation and properties of —. B. Bobranski, 1935, 47.
- Menthone**: content of peppermint oil; Evaluation of —. J. Reilly, N. Noonan and P. J. Drumm, 1931, 702.
 Determination of carvone and —. Ninth Report of the Essential Oil Sub-Committee. 1932, 378.
- Menue Oil**: Constituents of —. S. Ueno and M. Iwai, 1934, 352.
- Mercaptans**: Analytical reactions of alkyl — in benzene solution. J. R. Sampey and E. E. Reid, 1932, 665.
 in naphtha; Determination of —. P. Borgstrom and E. E. Reid, 1929, 767.
 Rapid determination of —. G. R. Bond, 1934, 56.
- Merceologia**: Dizionario di — e di Chimica Applicata. 5th Ed. Vols. I and II (Review), G. V. Villavecchia, 1930, 357; Vol. III, 1932, 69; Vol. IV, 1932, 548.
 Siciliana; Annali di —. Vol. I, 1934, 376; Vol. II, 1935, 727.
- Mercerisation**: Iodine — test. W. F. A. Ermen, 1931, 550.
 Test for —. R. W. Kinkead, 1926, 366.
- Mercerised** cotton; Test for —. H. Mennell, 1926, 422.
- Merchandise Marks**: Statutory Rules and Orders, 1928, No. 571, 1929, 167; No. 1052, 1929, 169.

- Merchandise Marks Act:** Ground almonds and the — (Legal Notes), **1926**, 187.
(Imported Goods) No. 5 Order, 1930. No. 566, Malt Products, **1931**, 45.
(Imported Goods) No. 7 Order, 1931. Statutory Rules and Orders, 1931. No. 171, **1931**, 460.
Lysol prosecutions under — (Legal Notes), **1934**, 693.
- Merck's Diastase:** A proposal for barley analysis. W. Piratzky, **1934**, 418.
- Mercurial ointments:** Analysis of some — W. R. Heading, **1935**, 109.
- Mercuric Acetate** as means of separating cysteine from ascorbic acid. A. Emmerle, **1934**, 559.
- Mercuric Bromate:** Volumetric determination of iron, using basic —. G. F. Smith and H. H. Bliss, **1932**, 125.
- Mercuric Bromide** paper for use in the Gutzeit test for arsenic. G. Kemmerer and H. H. Schrenk, **1926**, 478.
- Mercuric Chloride:** Determination of — by Rupp's method. H. Brindle, **1932**, 737.
papers (Gutzeit apparatus); Cap for holding —. T. J. Ward, **1930**, 630.
paper; Holder for —. G. H. Davis, **1931**, 30.
paper; Use of strips of —. A. F. Lerrigo, **1928**, 90.
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Relative effectiveness of — as disinfectant. **1926**, 259.
tablets; U.S.P. regulations for —. **1935**, 620.
Volumetric determination of —. **1935**, 727.
Volumetric determination of — by means of lead sulphide. N. A. Tananaeff and W. D. Ponomarjeff, **1935**, 495.
Volumetric method of assaying —. S. Ellman, **1926**, 42.
- Mercuric Cyanide:** mercury in —; New method for determining. E. Cattelain, **1931**, 132.
- Mercuric Iodide:** Addendum on the determination of —. **1926**, 234.
Analysis of —. J. Sandilands, **1926**, 255.
Determination of traces of mercury in the form of rings of —. A. Delauney, **1932**, 737.
ointment; Analysis of red —. C. A. Mitchell, **1926**, 293.
Reactions of —. E. Montigne, **1935**, 339.
Volumetric method of assaying —. S. Ellman, **1926**, 42.
- Mercuric Oxide** ointment; Assay of —. N. L. Allport, **1928**, 446.
- Mercuric Salicylate:** mercury in —; Determination of. A. F. Murray, **1927**, 163.
- Mercuric Salts:** Clearing of sugar solutions (wines) by —. L. Semichon and Flanzy, **1926**, 352.
- Mercurimetric** determination of chlorides in milk. E. Geyer and A. Rotsch, **1933**, 162.
iodine determination with diphenylcarbazine as indicator. J. V. Dubský and J. Trtílek, **1935**, 200.
- Mercurimetry:** New methods for volumetric determinations. A. L. Ionescu-Matiu, **1927**, 100.
- Mercurous Iodate:** Mercury determined, gravimetrically and volumetrically as —. G. and P. Spacu, **1934**, 199.
- Mercurous Ion:** Specific spot test for —. N. A. Tananajin, **1932**, 64.
- Mercurous Mercury:** Volumetric determination of — with ceric sulphate. H. H. Willard and P. Young, **1930**, 295.
- Mercurous Nitrate:** Titration of chloride and bromide with —. I. M. Kolthoff and W. D. Larson, **1934**, 847.
- Mercurous Salts** and ammonia; Interaction of —. F. Feigl and A. Sucharipa, **1926**, 51.
- Mercurous Tungstate:** Precipitation of tungsten as —. V. Spitzin, **1929**, 123.
- Mercury:** Apparatus for distilling — under reduced pressure. H. Vogels, **1934**, 650.
Atomic weight of —. **1928**, 160; **1929**, 296, **1934**, 547.
catalysts; Comparison of selenium, copper and — in the Kjeldahl method. R. A. Osborn and A. Krasnitz, **1933**, 289.
cathode apparatus; A moving —. B. S. Evans, **1935**, 389.
cathode cell for determining minute quantities of arsenic; New type of —. T. Callan and R. T. Parry Jones, **1930**, 90.
cathode; Electrolytic cell for use with the —. A. D. Melaven, **1930**, 416.
compounds; Gravimetric determination of copper, cadmium and nickel as complex —. A. Taurins, **1934**, 434.
compounds; Micro-combustion of carbon and hydrogen in —. M. Furter, **1931**, 341.
compounds; Volumetric determination of iodine in —. D. Kőszegi and N. Tomori, **1935**, 340.
compounds; Volumetric method of assaying —. S. Ellman, **1926**, 42.
Cupferron as means of separating and determining —. A. Pinkus and M. Katzenstein, **1930**, 526.
Delicate test for — in systematic qualitative analysis. A. W. Scott, **1930**, 216.
Detection and determination of small amounts of —. F. Cucuel, **1934**, 138.
Determination of — as periodate. H. H. Willard and J. J. Thompson, **1931**, 830.
Determination of — with anthranilic acid. H. Funk and F. Römer, **1935**, 494.
Determination of — with hydrazine or stannous chloride. H. H. Willard and A. W. Boldyreff, **1930**, 293.
Determination of traces of —. H. S. Booth and N. E. Schreiber, **1926**, 106.
Determination of traces of — in the form of mercuric iodide. A. Delauney, **1932**, 737.
Drop reaction for —. **1931**, 484.
dropping-cathode; Electrolytic analysis with the —. J. Heyrovský, **1927**, 731.
Electrical micro-determination of —. F. Patat, **1932**, 803.
Glycerin as reagent for —. M. Stschigol, **1934**, 433.
Gravimetric and volumetric determination as mercurous iodate. G. and P. Spacu, **1934**, 199.

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- in body fluids and tissues; Electrolytic method for determining small amounts of —. A. G. Young and F. H. L. Taylor, **1929**, 759.
- in commercial products; Determination of free —. H. B. Dunnichiff and K. Lal, **1927**, 329.
- in Donovan's solution; Determination of —. T. T. Cocking, **1931**, 262.
- in food and biological material; Bibliography on —. T. H. Pope, **1933**, 280.
- in galenicals; Determination of — and its separation from bismuth. E. Schulek and S. Floderer, **1934**, 434.
- in glass thermo-regulator. C. C. Coffin, **1934**, 305.
- in impregnated wood; Determination of —. **1932**, 737.
- in iodinated organic compounds; Determination of —. R. B. Sandin and E. T. Margolis, **1935**, 841.
- in mercuric cyanide; New method for determining —. E. Cattelain, **1931**, 132.
- in mercury salicylate; Determination of —. A. F. Murray, **1927**, 163.
- in organic and inorganic compounds; Determination of —. H. ter Meulen, **1926**, 422.
- in organic compounds; Anhydrous distillation method of determining —. E. P. Fenimore and E. C. Wagner, **1931**, 684.
- in presence of copper, iron and zinc; Determination of —. **1929**, 150.
- in presence of organic and inorganic compounds; Determination of small quantities of —. R. Robinson, **1929**, 145.
- in presence of organic matter; Determination of traces of —. H. S. Booth, N. E. Schreiber and K. C. Zwick, **1926**, 477.
- in solution; Accurate method for determining —. B. S. Evans and S. G. Clarke, **1926**, 224.
- in urine and faeces; Quantitative determination of — and influence of medication. N. E. Schreiber, T. Sollmann and H. S. Booth, **1928**, 447.
- in viscera and bones. **1932**, 718.
- in viscera; Determination of —. C. Newcomb, S. R. Naidu and K. S. Varadachar, **1935**, 732.
- Inaccuracy in the determination of — by direct precipitation as mercury sulphide from acid solution. E. P. Fenimore and E. C. Wagner, **1931**, 687.
- lamp; Light filters for —. E. J. Bowen, **1935**, 201.
- lamps; Detection of ageing in —. **1928**, 60.
- Lead separated from — as chromate. H. Fink and J. Schormuller, **1931**, 133.
- Micro-determination of —. V. Majer, **1932**, 803.
- New test for —. E. Stathis, **1935**, 53.
- ointment; Assay of ammoniated —. N. L. Allport, **1928**, 446.
- oscillating pump. J. T. Donnelly, C. Hamilton Foott, H. Nielsen and J. Reilly, **1928**, 62.
- poisoning; Detection of — after burial. A. Sartori, **1930**, 524.
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- Quantitative analysis of certain medicinal preparations containing —. A. Ionescu-Matiu and A. Popesco, **1929**, 609.
- Rapid and exact method for determining —. A. Augusti, **1935**, 842.
- Rapid determination of cadmium and —. G. Spacu and G. Suci, **1929**, 618.
- Rapid microchemical determination of copper and —. (a) G. Spacu and J. Dick; (b) G. Spacu and G. Suci, **1929**, 768.
- Reactions of anaesthetic ethers with potassium hydroxide and with —, and the test for foreign odours. E. Mallinckrodt, Junr., **1927**, 718.
- Separation of — from arsenic, antimony and tin. W. Hiltner and W. Gittel, **1935**, 428.
- Separation of — from iron. G. Spacu, **1926**, 51.
- Separation of tellurium from —. **1926**, 369.
- Separation of thallium from —. **1928**, 459.
- titrations; Micro-volumetric analysis with diphenylcarbazide and diphenylcarbazone as indicators in —. J. V. Dubský and J. Trtílek, **1934**, 304.
- vapour; Methods for determining —. B. W. Nordlander, **1927**, 357.
- vapour; Poisoning by —. L. M. Dennis, **1927**, 44.
- vapour; Selenium sulphide—a new detector for —. B. W. Nordlander, **1927**, 357.
- vapour lamp; Identification of tanning agents under the quartz —. L. Pollak, **1934**, 439.
- Vapour lamp; Testing seeds, etc., under the quartz —. A. Niethammer, **1929**, 563.
- Vapour lamp; Uses of — in criminal investigation. **1929**, 545.
- Volumetric determination of —. H. B. Dunnichiff and H. D. Suri, **1929**, 405.
- Mercury Fulminate**: mercury in —; Determination of. **1927**, 332.
- Mercury Salts**: Action of — on the veronals. P. Fleury, **1926**, 92.
- Mercury Sulphide**: Inaccuracy in the determination of mercury by direct precipitation as — from acid solution. E. P. Fenimore and E. C. Wagner, **1931**, 687.
- Mercury Tannate**: Determination of —. A. Ionescu-Matiu and A. Popesco, **1932**, 531.
- Merino fleece**; Studies on —. I, Chemistry of suint. M. R. Freney, **1934**, 500; II, Separation of cholesterol and isocholesterol of wool wax. M. R. Freney, **1934**, 770.
- Mersey River** investigation. **1935**, 39.
- Merthyr Tydfil**: Official appointment of R. P. Charles as Agricultural Analyst for County Borough of —. **1929**, 536.
- Merz Reactions** for certain new anaesthetics. H. Szancer, **1932**, 724.
- Mesaonic Acid**: Identification of —. H. H. Mottern and G. L. Keenan, **1931**, 549.
- Isolation of — from cabbage leaves. H. W. Buston, **1929**, 239.
- Mesothorium I**: Separation of radium and — from barium by ionic migration. J. Kendall, E. R. Jette and W. West, **1927**, 106.

- Metabolism:** Bacterial —. (Monographs on Biochemistry), (Review), M. Stephenson, 1930, 355.
- Carbohydrate — in health and disease. H. MacLean, 1926, 429.
- Deuterium as an indicator in the study of intermediary —. I. R. Schoenheimer and D. Rittenberg, 1935, 770.
- experiments; Gas analysis apparatus modified for determination of methane in —. T. M. Carpenter and E. L. Fox, 1926, 636.
- Iodine —. C. Newcomb and G. Sankaran, 1930, 399.
- of amino acids. J. M. Luck, 1928, 345.
- of laevulose, with a colorimetric method for its determination in blood and urine. R. C. Corley, 1929, 180.
- of the phospholipids. The passage of elaidic acid into tissue phospholipids. R. G. Sinclair, 1935, 832.
- pentose —; Studies in. II, Micro method for determining pentoses and pentosans. G. E. Youngburg, 1927, 484.
- Metabolites:** Action of milk peroxidase with hydrogen peroxide on —. K. A. C. Elliott, 1932, 394.
- Metacetaldehyde** poisoning; A case of —. W. H. Willcox and C. A. Mitchell, 1927, 528.
- Meta-Cresol:** Bromine as a reagent in determining —. 1931, 734.
- Meta-Cresols** in mixtures of cresols; Determination of —. C. E. Sage and H. R. Fleck, 1932, 567.
- Meta-Diamine** in leather; Detection of —. 1934, 519.
- Metadinitrobenzene** in alkaline medium; Colour reactions of —. M. Péronnet and R. Truhaut, 1934, 431.
- in alkaline solution; Colour reactions of —. R. Truhaut, 1934, 60.
- Metal:** Alleged dermatitis from —. (Legal Notes), 1931, 399.
- Determination of bismuth as —. E. Rupp and G. Hamann, 1932, 193.
- ions; 2, 3-Diaminophenazine as a reagent for —. T. Pavolini, 1934, 365.
- particles in dust, etc.; Detection of free —. T. J. Ward, 1933, 28.
- plating; Micro-analysis of —. R. Strebinger and H. Holzer, 1930, 719.
- solution in milk; Residual-current measurements in control of —. H. T. Gebhardt and H. H. Sommer, 1931, 814.
- Metallen:** Ausgewählte Methoden für Schiedsanalysen und Kontradiktorischen Arbeiten bei der Untersuchung von —. (Review), 1932, 677.
- Metallic halides:** Reactions of rubber hydrocarbons with —. H. A. Bruson, L. B. Sebrell and W. C. Calvert, 1927, 728.
- impurities in marine crustaceans and shell fish; On the presence of lead and other —. A. C. Chapman and H. Linden, 1926, 563.
- particles in manufactured products; Detection and identification of —. H. C. Lockwood, 1934, 812.
- pyrocatechol compounds; New — and their use in microchemical analysis. A. Martini, 1926, 646.
- Metallography:** Microchemical tests in —. M. Niessner, 1930, 654.
- Metallurgical Analysis** by the Spectrograph. (Review), D. M. Smith, 1934, 208.
- Analysis; Select Methods of —. (Review), W. A. Naish and J. E. Clennell, 1930, 158.
- analysis; Study and improvement of methods of —. 1932, 463.
- analysis; Use of the spectrograph in —. D. M. Smith, 1935, 17.
- products and pigments; Determination of metallic lead in —. D. H. McIntosh, 1927, 104.
- Metallurgist's Manual.** (Review), T. G. Bramford and H. Harris, 1927, 501.
- Metallurgy:** Constants and Numerical Data; Annual Tables of —. (Review), 1927, 175.
- Elementary Text-book on —. (Review), E. L. Rhead, 1935, 647.
- of White Metal Scrap and Residues. (Review), E. R. Thews, 1930, 776.
- Metals:** Alkali —. See **Alkali Metals.**
- Atmospheric Corrosion of —. 1930, 232.
- bismuth in presence of other —; Determination of traces of. L. A. Haddock, 1934, 163.
- copper in presence of certain —; Determination of minute amounts of. L. A. Haddock and N. Evers, 1932, 495.
- Corrosion of —. 1928, 223; 1933, 406; 1935, 613.
- Corrosion of — by milk. H. A. Trebler, W. A. Wesley and F. L. LaQue, 1932, 383.
- Deposition of — on copper from cyanide solution. I, New method for separating and determining small amounts of lead. B. S. Evans, 1928, 267.
- Detection and determination of — by means of ortho-hydroxyquinoline (Oxine). I. M. Kolthoff, 1928, 175.
- Determination of — by means of 8-hydroxyquinoline. Part I, H. R. Fleck and A. M. Ward, 1933, 388.
- Diphenylthiocarbazono for the detection of heavy —. H. Fischer, 1933, 567.
- Effect of tanned leathers on —. 1933, 229.
- electrolytic separation of —; Method for. D. J. Brown, 1926, 267.
- foreign substances in —; Chemical identification of. M. Niessner, 1932, 802.
- Impurities in —. Their Influence on Structure and Properties. (Review), C. J. Smithells, 1928, 620; 2nd Ed., 1931, 351.
- in food and biological material; Bibliography on heavy —. T. H. Pope. I, Copper, 1932, 709; II, Lead, 1932, 775; III, Zinc, 1933, 30; IV, Manganese, 1933, 91; V, Mercury, 1933, 280; VI, Cobalt, 1933, 340; VII, Nickel, 1933, 340; VIII, Chromium, 1933, 341; IX, Tin, 1933, 398; X, Bismuth, 1933, 607; XI, Antimony, 1934, 109; XII, Cadmium, 1934, 109; XIII, Thallium, 1934, 109.
- in iron salts; Determination of —. A. D. Powell and G. F. Hall, 1932, 736.
- in organic compounds; Micro-determination of halogens and —. H. H. Willard and J. J. Thomson, 1930, 529.

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- in rayon; Micro-determination of ——. B. P. Ridge, M. Corner and H. S. Cliff, **1933**, 721.
- in use in ancient Egypt. **1926**; 438, 447; **1933**, 661.
- Indicators for ——. **1934**, 339.
- Microchemical spot tests for some of the heavy —, using dithizone (diphenyl-thiocarbazon). H. Fischer, **1931**, 208.
- New complex cyanogen compounds of ——. J. Foucry, **1933**, 779.
- New method for separating and determining — by means of *o*-hydroxyquinoline. R. Berg, **1927**, 302.
- non-ferrous; Methods for analyses* of ——. G.D.M.B. Committee's Report. (Review), **1926**, 324.
- of cooking vessels; Solubility of — and determination of the dissolved ——. K. K. Järvinen, **1926**, 43.
- of the ammonium sulphide group; Analysis of ——. L. Lehrman, H. Weisberg and E. A. Kabat, **1934**, 844; Precipitation of ——. A. Krüger, **1933**, 637.
- of the hydrogen sulphide group; Separation of the earth acids* from ——. E. F. Waterhouse and W. R. Schoeller, **1932**, 284.
- Organic Reagents for ——. (Review), Hopkin & Williams' Research Staff. 1933**, 310.
- oxidation tints on —; Films responsible for. T. R. Evans, **1927**, 662.
- platinum —; Qualitative separation of. S. C. Ogburn, **1926**, 647.
- poisonous — in food-colouring materials; Second Report of the Sub-Committee on. Determination of lead. **1935**, 541.
- Production of single crystals of pure ——. **1931**, 664.
- Qualitative analysis of — by means of the Féry spectroscope. **1929**, 546.
- Quinoline as a microchemical reagent for some of the heavy ——. J. M. Korenman, **1931**, 482.
- Resistance of — to wines. H. E. Searle, F. L. LaQue, and R. H. Dohrow, **1934**, 631.
- salts of heavy —; Sensitive microchemical reaction of picric acid with. I. M. Korenman, **1933**, 373.
- separation of — by graded potentials; Simplification in the method. A. J. Lindsey and H. J. S. Sand, **1934**, 328.
- Separation of — by "internal electrolysis." H. J. S. Sand, **1930**, 309.
- Separation of caesium from other alkali ——. N. A. Tananaeff and E. P. Harmasch, **1932**, 672.
- Separation of iron, aluminium and chromium from bivalent — by means of ammonium benzoate. I. M. Kolthoff, V. A. Stenger and B. Moskovitz, **1934**, 572.
- Separation of manganese as peroxide from other ——. K. A. Jensen, **1932**, 125.
- thallium in presence of other —; Determination of traces of. L. A. Haddock, **1935**, 394.
- Use of phenolic acids in detecting, separating and determining ——. I. Separation of group 2A ——. P. N. Das-Gupta, **1929**, 678.
- Metanilic Acid**: Identification of ——. R. B. Forster, **1935**, 53.
- Metaphosphate**: orthophosphate in presence of pyro- and —; Colorimetric determination of. K. Boratynski, **1935**, 842.
- Metaphosphates**: Reaction between albumin and various ——. D. Balarew, **1928**, 400.
- Metaphosphoric Acid**: Volumetric determination and separation of ortho-, pyro- and ——. S. Aoyana, **1931**, 480.
- Meteorological Office**: Air Ministry. Changes of zero in spirit thermometers, **1929**, 291.
- Air Ministry. Report of Advisory Committee on Atmospheric Pollution for year 1924–25, **1926**, 86; for 1925–26, **1927**, 155.
- Methaemoglobin**: Bicolorimetric method for determining ——. B. B. Clark and R. B. Gibson, **1933**, 293.
- Cyanmethaemoglobin and the determination of ——. Balthazard and M. Philippe, **1926**, 466.
- Gasometric determination of ——. D. D. Van Slyke and A. Hiller, **1929**, 760.
- Improved method for determining ——. J. B. Conant, N. D. Scott and W. F. Douglass, **1928**, 167.
- Spectro-photometric study of fluoro-methaemoglobin for detecting — and for determining fluorides. R. Fabre and S. Bazille, **1934**, 125.
- Methane**: Analysis of mixtures of hydrogen, ethane and ——. O. J. Walker and S. N. Shukla, **1931**, 274.
- Combustion of — by means of copper oxide. J. R. Campbell and T. Gray, **1931**, 59.
- Determination of small quantities of ——. H. R. Ambler, **1931**, 635.
- Gas analysis apparatus for determination of — in metabolism experiments. T. M. Carpenter and E. L. Fox, **1926**, 636.
- hydrocarbons; Oxidation over a platinised silica-gel, **1934**, 198.
- indicator; Detection of petroleum vapour with the Burrell ——. G. W. Jones and W. P. Yant, **1926**, 104.
- oxidation of — by means of copper oxide; Influence of various catalysts in promoting. J. R. Campbell and T. Gray, **1931**, 60.
- Methanol** (Methyl alcohol). **1931**, 58.
- British Standard Specification No. 506. **1933**, 730.
- in ethyl alcohol; Detection of ——. **1927**, 100.
- in presence of ethyl alcohol; Determination of ——. F. S. Mortimer, **1927**, 482.
- Tests for ——. H. Lefmann and C. C. Pines, **1929**, 671.
- tests for —; Comparison of sensitiveness of. J. O. Wright, **1927**, 482.
- Methionine** in proteins; Determination of ——. H. D. Baernstein, **1932**, 728.
- Methone** as a reagent for aldehydes. D. Vorländer, **1929**, 485. *See also* list of Errata.
- Methoxy Group**: Use of acetic anhydride in Zeisel's method for determining ——. M. Nierenstein, **1926**, 456.
- Methoxyacetic Anhydride** for determining hydroxyl groups. D. W. Hill, **1934**, 429.

- Methoxyl group**; Apparatus for the micro-determination of —. R. Guillemet, **1933**, 247.
 group; Vieböck and Schwappach method for determining —. E. P. Clark, **1932**, 402.
 groups in liquid compounds; Micro-analytical determination of —. A. F. Colson, **1933**, 594.
 groups; Modified micro method of determining —. H. R. Nanji, **1934**, 96.
 in plant materials; Determination of —. M. Phillips, **1932**, 402.
 in plants and plant materials; Determination of —. M. Phillips, M. J. Goss and C. A. Browne, **1933**, 495.
 Micro-determination of methoxyl. V. Bruckner, **1933**, 178.
 Micro-volumetric determination of —. D. T. Gibson and T. H. Caulfield, **1935**, 845.
- Methoxytriphenylcarbinols** as one-colour indicators; Use of —. I. M. Kolthoff, **1927**, 430.
- Methyl-Acetyl Carbinol** in foodstuffs, etc.; Detection of —. H. Schmalfuss and H. Barthmeyer, **1932**, 389.
- Methyl Alcohol**: **1931**, 58.
 British Standard Specification No. 506. **1933**, 730.
 in alcoholic beverages; Detection of —. F. R. Georgia and R. Morales, **1926**, 252.
 in alcoholic products. J. B. Wilson, **1935**, 776.
 in alcohols from wine, including marc wine and fruit wine; Presence of —. M. Flanzky, **1934**, 553.
 in foliage leaves. Relation between the alcohol and chlorophyll. M. Flanzky, **1934**, 558.
 in mixtures containing acetone and its homologues; Determination of —. R. W. Hoff and J. M. Macoun, **1933**, 749.
 in presence of ethyl alcohol and its homologues in large quantities; Determination of small amounts of —. M. Flanzky, **1935**, 632.
 in presence of large quantities of homologous alcohols; Micro-determination of —. M. Flanzky, **1934**, 193.
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 Toxicity of — following skin absorption and inhalation. C. P. McCord, **1931**, 759.
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 water in —; Determination of small quantities of. M. M. Rising and J. S. Hicks, **1928**, 472.
- Methyl Chloride** gas; Toxic effects of —. B. Buckley Sharp, **1930**, 291.
 in air and goods; Detection and determination of —. M. J. Martinek and W. C. Marti, **1932**, 122.
 in air; Determination of small amounts of —. F. A. Patty, H. H. Schrenk and W. P. Yant, **1932**, 668.
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- Methyl Ester**: Detection of benzoic acid as —. L. Pick, **1931**, 466.
- Methyl Glyoxal**: Quantitative determination of — by means of an alkaline solution of iodine, and its chemical mechanism. F. Fischler and R. Boettner, **1928**, 453.
- Methyl Mercaptan** in air containing hydrogen sulphide; Detection and determination of carbon disulphide and —. J. F. Reith, **1934**, 197.
- Methyl Orange** as means of detecting free chlorine and chloramine. Besemann, **1928**, 669.
 Behaviour of phenolphthalein and — in the oxidation of sugars by alkaline iodine. C. E. Mallen, **1932**, 244.
 error in the determination of pH values by comparison with Clark's buffer solutions. I. M. Kolthoff, **1926**, 423.
- Methyl Protocatechuic Aldehyde**: Comparative study of ethyl and —. L. Klotz, **1929**, 752.
- Methyl Red** as indicator for alkaloidal titrations. **1926**, 316.
- Methyl Salicylate**: Use of — in a flowmeter. R. H. K. Foster, **1926**, 216.
- Methyl Sulphide**: Liberation of — by seaweed. B. Haas, **1935**, 628.
- β -Methyl-Umbelliferone** as a fluorescent indicator. C. Bülow and W. Dick, **1929**, 63.
- Methylal** as a solvent in analysis. L. Espil, **1935**, 113.
 as means of extracting zymoflavine. L. Genevois and L. Espil, **1935**, 111.
- Methylamines**: Behaviour of indicators in the titration of the —. R. T. Thomson, **1928**, 315.
- Methylated glucoses**; Oxidation of —. H. Sobotka, **1926**, 522.
- Methylated Spirit**: Dermatitis due to the external use of —. P. B. Mumford, **1926**, 47.
 in sal volatile. (Legal Notes), **1934**, 346.
 Regulations (1925). **1926**, 89.
 Use of — in solution of iodine. (Legal Notes), **1935**, 173.
- Methylene Blue** for the milk reductase test. D. W. Steuart, **1928**, 532.
 in flour; Detection of —. P. Nottin, **1934**, 630.
 in milk; Effect of light on the reduction of —. G. A. Aikens and A. C. Fay, **1932**, 318.
 in milk; Reduction of —. Influence of light. H. R. Whitehead, **1930**, 594.
 in tinned peas. **1931**, 742; D. Henville, **1930**, 629.
 in the volumetric determination of potassium. A. Bolliger, **1934**, 846.
 Iodimetric evaluation of —. W. C. Holmes, **1928**, 111.
 Janus Green as substitute for — in the reductase test for milk. L. Soep, **1928**, 106; A. R. Tankard, **1928**, 213.
 method of measuring ultra-violet radiation. **1935**, 410.
 Quantitative determination of —. M. François and L. Sequin, **1929**, 551.
 Staining yeasts with —. **1930**, 711.
 Studies with —. I. J. Fuchs, **1930**, 207.
 test for stability of sewage. **1934**, 282.

- β -Methylesculetin** as fluorescence indicator. 1933, 722.
- Methylethyl Ketone** in presence of secondary butyl alcohol; Determination of —. H. A. Cassar, 1927, 725.
- Methylglyoxaldehyde**: Methone as reagent for —. 1929, 486. See also list of Errata.
- Methylols** derived from amides and urea; Determination of — by means of Nessler's reagent. J. Bougault and J. Laboucq, 1933, 300.
- Methylpyrethrolon** in pyrethrum flowers; Presence of —. C. B. Gnadinger and C. S. Corl, 1933, 300.
- Methylthiolation**: Method for direct — and its application in the preparation of some substituted thioanisoles. H. H. Hodgson and F. W. Handley, 1928, 53.
- Mexican linaloe oil**. W. H. Simmons, 1935, 116.
- Maguey plant**. 1928, 162.
- scammony root resin: its solubility in ether and the acid value as a test for rosin. C. E. Corfield and W. R. Rankin, 1931, 673.
- Meyer Apparatus**: Improved — for vapour-density determinations. A. Tian, 1927, 107.
- Mianin**: 1931, 51.
- Effectiveness of — as disinfectant. 1926, 29.
- Mice**: Effect of nicotine upon white —. C. H. Thienes, 1929, 359.
- Micro-Acidimetric** method for determining nickel. J. V. Dubský and E. Hauer, 1933, 305.
- Micro-analysis** Application of catalysis in —. R. Lucas and F. Grassner, 1935, 848.
- Dilution method applied to —. J. B. Mederl, O. R. Trantz and W. J. Saschek, 1930, 771.
- Elimination of phosphoric acid in qualitative —. S. Ginsburg and M. H. Pringsheim, 1935, 783.
- Fluorescence methods in —. Collected references. M. Heitingcr, 1935, 201.
- inorganic gravimetric —; New method of. I, Determination of small quantities of gold in presence of large amounts of iron, lead and copper. J. Donau, 1930, 598.
- of cobalt; Colorimetric method for —. L. Michaelis and S. Yamaguchi, 1929, 620.
- of gases; Dry method for —. F. E. Blacet and P. A. Leighton, 1932, 337.
- of metal plating. R. Strebingcr and H. Holzer, 1930, 719.
- of pure aluminium; Rapid —. I, Iron, copper and manganese. F. Pavelka and H. Month, 1933, 785.
- of steel. J. Kassler, 1930, 772.
- of uranites; Quantitative —. F. Hecht and W. Reich-Rohrwig, 1934, 368.
- of water; Photometric —. C. Urbach, 1933, 717.
- Pipette for —. A. F. Shohl, 1928, 241.
- Quantitative Organic —. F. Pregl. 2nd Eng. Ed. (Review), 1930, 776.
- Use of polarographic methods in —. J. Heyrovský, 1933, 423.
- Micro-Analytical** determination of certain hydro acids by means of the photo-electric cell. Quantitative —. A. S. Williams, R. H. Muller and J. B. Niederl, 1931, 619.
- Micro-Analytical—continued.**
- determination of methoxyl groups in liquid compounds. A. F. Colson, 1933, 594.
- determination of sulphur and halogens. A. Récei, 1926, 647.
- method for the identification of organic substances. V. Stanék and T. Nemes, 1932, 471.
- methods in industrial laboratories. II, Pregl's method of combustion of carbon and hydrogen without the use of air. F. Vetter, 1932, 541; III, Micro-apparatus for the gravimetric determination of water in coal and other solids. F. Vetter, 1932, 541.
- separation of chlorine and bromine. L. Moser, 1930, 413.
- Micro-Apparatus** for the determination of molecular weight; Improved —. A. F. Colson, 1932, 757.
- for the gravimetric determination of water in coal and other solids. F. Vetter, 1932, 541.
- Micro-Balance**: Electro-magnetic — for micro-gravimetric determinations with minute quantities of material. E. Wiesenberger, 1932, 275.
- Gravimetric analysis with the Kuhlmann —. (1) Drying of precipitates. (2) Determination of aluminium. A. Pichler, 1930, 298.
- New —. J. Donau, 1931, 342.
- Torsion —. J. Donau, 1934, 136.
- Microbe**: Soil and the —. (Review). S. A. Waksman and R. L. Starkey, 1932, 66.
- Microbes**: Action of free chlorine on —. F. Dienert and P. Etrillard, 1927, 722.
- and Ultramicrobes. (Review), A. D. Gardner, 1932, 414.
- Microbic flora** of frozen eggs. J. Verge and E. Grasset, 1928, 297.
- Microbiology**: General —. (Review), W. Giltner, 1928, 362.
- Industrial —. The Utilisation of Bacteria, Yeasts and Molds in Industrial Processes. (Review), H. F. Smyth and W. L. Obold, 1931, 423.
- Institute of Industrial —; The Fungi Imperfecti, and a further plea for an. A. C. Chapman, 1926, 319.
- of Cellulose, Hemicellulose, Pectin and Gums. (Review), A. C. Thaysen and H. J. Bunker, 1927, 500.
- of Starch and Sugars. (Review), A. C. Thaysen and L. D. Galloway, 1930, 723.
- of wool. L. Burgess, 1928, 554.
- Micro-bromide Test** for detecting linseed oil in mustard seed oil. S. Neogi, 1935, 91.
- Micro-Burette**: Simple tapless —. K. Schwarz, 1933, 422.
- Micro Carbon-Hydrogen Determination**: Note on Schöbel's heating block for the Pregl —. H. Lieb, 1934, 718.
- Micro-Catalytic** detection of platinum metals. F. L. Huhn, 1930, 467.
- Microchemical** analysis; Electrographic methods. Collected references. R. Jirkovsky, 1935, 123.
- analysis; New metallic pyrocatechol compounds and their use in —. A. Martini, 1926, 646.

Microchemical—continued.

- colorimetric determination of sodium. A. Elias, **1935**, 783.
- colour reaction of *m*-dinitrobenzene for the forensic detection of benzene. J. Peltzer, **1933**, 297.
- detection of cholesterol. C. Van Zijp, **1933**, 568.
- detection of coumarin. M. Wagenaar, **1933**, 501, 720.
- detection of vanillin and piperonal. M. Wagenaar, **1932**, 673.
- determination of glucose. Ch. Cimerman and P. Wenger, **1932**, 337.
- determination of magnesium in blood without removing calcium. S. Yoshimatsu, **1931**, 756.
- determination of phosphoric acid as strychnine phosphomolybdate. C. Antoniani and R. B. Jona, **1928**, 405.
- distinctions of essential oils. L. Rosenthaler, **1929**, 362.
- electrolytic analysis; Application of controlled potential to ——. A. J. Lindsey and H. J. S. Sand, **1935**, 739.
- examination of blood. M. Wagenaar, **1930**, 405.
- examination of glucosides. L. Rosenthaler, **1932**, 63.
- examination of pictures. H. Hetterich, **1932**, 198.
- identification of alkaloids; System for the ——. J. F. H. Amelink, **1931**, 418.
- identification of *Artemisia santonica*. F. Amelink, **1930**, 52.
- identification of caffeine. H. J. Sandrus and M. L. Willard, **1933**, 117.
- identification of dilaudide. F. Amelink, **1933**, 246.
- identification of harmine and harmaline. J. F. H. Amelink, **1931**, 419.
- identification of ink in handwriting. T. J. Ward, **1934**, 621.
- identification of *Lunasia* alkaloids. F. Amelink, **1933**, 117.
- identification of novocaine (procaine). M. Wagenaar, **1933**, 178.
- identification of pantocaine. F. Amelink, **1933**, 245.
- identification of santonin. M. Wagenaar, **1934**, 574.
- identification of some barbituric acid compounds. L. van Itallie and A. J. Steenhauer, **1931**, 136.
- Laboratory Manual. (Review), F. Emich, **1932**, 741.
- method for determining the hexuronic acid (vitamin C) content of foodstuffs, etc. T. W. Birch, L. J. Harris and S. N. Ray, **1933**, 490.
- methods; Application of — to the analysis of pigments of paintings. H. Hetterich, **1931**, 136.
- Practice. 2nd Ed. (Review), F. Emich, **1931**, 138.
- reaction for cocaine. A. Martini, **1933**, 57.
- reaction of picric acid with salts of copper and some other heavy metals. I. M. Korenman, **1933**, 373.

Microchemical—continued.

- reactions for cadmium salts; New highly sensitive ——. A. Martini, **1927**, 493.
- reactions of homatropine. M. Wagenaar, **1929**, 47.
- reactions of hydrastine. M. Wagenaar, **1930**, 296.
- reactions of physostigmine. M. Wagenaar, **1924**, 424.
- reactions of pilocarpine. M. Wagenaar, **1930**, 412.
- reactions of piperine. M. Wagenaar, **1929**, 424.
- reactions of pyramidone. M. Wagenaar, **1935**, 575.
- reactions of saccharin. M. Wagenaar, **1932**, 592.
- reactions of theobromine. M. Wagenaar, **1929**, 244.
- reactions of veratrine. M. Wagenaar, **1930**, 413.
- reactions with loretin. C. van Zijp, **1932**, 801.
- reagent; Ammonium molybdate as a ——. C. van Zijp, **1935**, 431.
- reagent for alkaloids, etc.; Beta-anthraquinone-monosulphonate acid as a ——. L. Rosenthaler, **1929**, 351.
- reagent for some of the heavy metals; Quinoline as ——. J. M. Kovenman, **1931**, 482.
- references. **1932**, **1935**, 274.
- soil analysis. M. F. Morgan, **1934**, 65.
- spot tests for some of the heavy metals, using dithizone (diphenylthiocarbazono). H. Fischer, **1931**, 208.
- test for barium with sodium tungstate. G. Denigès, **1930**, 156.
- test for chlorine and its esters in tissue extracts. F. J. Booth, **1935**, 845.
- test for hydrogen peroxide and for vanillin. C. Griebel, **1932**, 200.
- test for molybdenum, vanadium and tungsten. A. Martini, **1932**, 741.
- test for silver; Silver azide as a ——. R. Uzel, **1930**, 718.
- tests. L. Rosenthaler, VIII, **1933**, 784; IX, **1934**, 137; X, **1934**, 721; XI, **1934**, 774.
- tests for benzoic acid, salicylic acid and esters of *p*-hydroxybenzoic acid in food and drugs. R. Fischer and F. Stauder, **1931**, 275.
- tests for carbonates. F. Feigl and P. Krumholz, **1930**, 655.
- tests for glycerol, ethylene glycol and *d*-mannitol. H. Alber, **1930**, 295.
- tests in metallography. M. Niessner, **1930**, 654.
- work in 1934; References to ——. Part 1, pp. 1–80. **1935**, 848.
- Micro-Chemistry**: New method of preparative ——. J. Winkelmann, **1934**, 506.
- of aluminium, chromium, iron, titanium and uranium; Collected references to ——. K. Heller, **1933**, 305.
- of antipyrine. M. Wagenaar, **1935**, 576.
- of atophan. M. Wagenaar, **1934**, 779.
- of coumarin. C. van Zijp, **1927**, 657.
- of cytosine. M. Wagenaar, **1930**, 349.
- of equinine. M. Wagenaar, **1934**, 506.
- of plants; Titan yellow as reagent for magnesium in ——. H. Eilers, **1928**, 239.

- Micro-Colorimeter:** Easily constructed form of —. G. W. Chapman, **1930**, 443.
- Micro-Colorimetric** determination of copper in organic substances; Application of sodium diethylthiocarbamate reaction to —. W. D. McFarlane, **1932**, 802.
- determination of glycerol in coloured wines. C. de Coquet, **1930**, 653.
- method for the quantitative determination of iodine in blood. R. G. Turner, **1930**, 707.
- method of iodine in blood; Technical refinements for —. R. G. Turner and M. Z. Weeks, **1933**, 169.
- Micro-Combustion:** Electric heater for Pregl's —. B. Flaschenträger, **1931**; 210; W. Fünér, **1932**, 199; R. Guillemet, **1933**, 248.
- New cymene bath for Pregl's —. A. Verdino, **1932**, 199.
- of carbon and hydrogen. P. L. Kirk and A. G. McCalla, **1933**, 55.
- of carbon and hydrogen in mercury compounds. M. Furter, **1931**, 341.
- of carbon and hydrogen; Pre-heater for use in —. W. F. Bruce, **1935**, 844.
- of carbon and hydrogen, without the use of air; Pregl's method for —. F. Vetter, **1932**, 541.
- Micro-Comparator:** A simplified —. W. Stirling, **1933**, 684.
- Micro Copper-Pyridine reaction** for saccharin. C. Van Zijp. J. J. L. Zwikker, **1934**, 850.
- of certain organic acids. A. J. Steenhauer, **1935**, 577.
- Micro-Crystallographic** identification of barbituric alkaloids. G. Denigès, **1931**, 689.
- Microcrystallography:** Identification of yohimbine by —. G. Denigès, **1929**, 179.
- Micro Density** determination of gases by direct weighing. E. W. Blank, **1933**, 641.
- Micro-Desiccator:** A useful —. W. Münster, **1934**, 438.
- Micro-Detection** of alkaloids. G. D. Lander, **1930**, 474.
- of aluminium. F. L. Hahn, **1932**, 804.
- of cobalt, nickel, manganese and zinc; Collected references to —. K. Heller, **1933**, 305.
- of magnesium and aluminium with alkannin and naphthazarin. J. V. Dubský and E. Wagner, **1935**, 641.
- of sugar in urine and other solutions; Use of Benedict's solution in —. H. Tauber, **1934**, 648.
- of thallium. A. J. Steenhauer, **1930**, 467.
- Micro-Determination** and separation of calcium and magnesium. K. L. Maljaroff, **1932**, 64.
- of bromides and iodides in presence of chlorides. I. Bellucci, **1935**, 275.
- of caffeine; Colorimetric —. G. Denigès, **1935**, 200.
- of caffeine in coffee. A. C. Röttinger, **1930**, 348.
- of calcium in serum. P. Wenger, C. Cimerman and P. Bongland, **1934**, 650.
- of calcium; New —. A. Astrey, M. Mousseron and N. Boisson, **1930**, 297.
- of carbohydrates in pure solutions, and in animal material. Z. Dische, **1932**, 410.
- Micro-Determination—continued.**
- of carbon and hydrogen in an atmosphere of nitrogen. J. B. Niederl and B. Whitman, **1932**, 740.
- of carbon by the use of chromic acid oxidation. A. Boivin, **1929**, 117.
- of carbon by the wet method. I, H. Lieb and H. G. Krainick, **1932**, 273; II, Combustion of liquids. E. Schadendorff and M. K. Zacherl, **1932**, 336.
- of chloride and potassium; Volumetric —. B. Bullock and P. L. Krik, **1935**, 497.
- of chlorides in tissues. K. Linderstrøm-Lang, A. H. Palmer and H. Holter, **1935**, 421.
- of cholesterol; Contributions to the —. M. Yasuda, **1931**, 620.
- of copper by means of salicyl-aldoxime. W. Reif, **1931**, 557.
- of copper with urobilin. A. Emmerie, **1930**, 718.
- of fluorine in organic substances. D. M. Hubbard and A. L. Henne, **1934**, 777.
- of halogens and metals in organic compounds. H. H. Willard and J. J. Thomson, **1930**, 529.
- of hydroxyl groups. P. M. Marrian and G. F. Marrian, **1930**, 598.
- of iodine. G. Lunde, K. Closs and J. Böe, **1930**, 413.
- of iodine and a useful micro-indicator. W. Münster, **1934**, 438.
- of iodine in common salt. H. Werner, **1931**, 341.
- of iodine in eggs. H. J. Almquist and J. W. Givens, **1933**, 643.
- of iodine in organic substances. T. Leipert, **1930**, 413.
- of iron. F. Rappaport and E. Hohenberg, **1934**, 649.
- of iron in biological material; Collected references to —. Z. Stary, **1933**, 304.
- of iron in blood. F. H. Smirk, **1927**, 291.
- of magnesium and *o*-hydroxyquinoline and its separation from calcium. R. Strebing and W. Reif, **1930**, 297.
- of magnesium by means of hydroxyquinoline. G. Glomaud, **1934**, 205.
- of magnesium; New method for the semi-micro- and —. A. Blanchetière and M. Arnoux, **1933**, 305.
- of mercury. V. Majer, **1932**, 803.
- of mercury; Electrical —. F. Patat, **1932**, 803.
- of metals in rayon. B. P. Ridge, M. Corner and H. S. Cliff, **1933**, 721.
- of methoxyl. V. Bruckner, **1933**, 178.
- of molecular weight. J. B. Niederl and W. J. Saschek, **1933**, 114.
- of molybdenum; Gravimetric method for the —. J. B. Niederl and E. P. Silbert, **1929**, 256.
- of morphine in opium and its preparations; Colorimetric —. J. A. Sanchez, **1935**, 419.
- of nickel and cobalt. Collected references. Z. Stary, **1934**, 507.
- of non-protein nitrogen and urea in blood. F. Rappaport, **1934**, 798.

Micro-Determination—*continued.*

- of phosphoric and arsenic acids with "molybdenum-blue." S. Zinzadze, **1932**, 411.
- of phosphorus as phosphomolybdate. R. H. A. Plimmer, **1934**, 370.
- of selenium and tellurium in organic compounds. H. D. K. Drew and C. R. Porter, **1929**, 683.
- of silica in tissues and in blood. G. Rodillon, **1934**, 438.
- of silver in blood and organs. L. Pincussen and W. Roman, **1930**, 350.
- of sodium in biological materials. R. A. McCance and H. L. Shipp, **1932**, 129.
- of sugar in blood (plasma, etc.); Volumetric —. F. Rappaport and R. Pistiner, **1935**, 199.
- of sulphur as benzidine sulphate, and urea as dixanthylureate; Use of Jena glass filters in —. R. Guillemet, **1933**, 248.
- of the ethoxyl and methoxyl groups and of glycerol; Apparatus for —. R. Guillemet, **1933**, 247.
- of the molecular weight of volatile liquid compounds. A. F. Colson, **1934**, 529.
- of urea in blood. P. Wenger, Ch. Cimerman and A. Maulbetsch, **1934**, 507.
- Micro Dumas Method**: Contributions to the —. O. R. Trautz, **1931**, 555.
- for substances of low nitrogen content; Use of —. F. Vetter, **1933**, 424.
- Measurement of the small volumes of nitrogen obtained by —. H. C. Gull, **1935**, 401.
- Micro-Electrolysis**: Apparatus for —. H. Brantner and F. Hecht, **1934**, 204.
- Method of stirring during —. A. Okáč, **1934**, 203.
- Qualitative — with a small electrode. H. J. Brenneis, **1931**, 618.
- Micro-electrolytic** determination of bismuth and lead and their separation by graded potential. A. J. Lindsey, **1935**, 744.
- determination of lead. H. Brantner and F. Hecht, **1934**, 204.
- method for determining copper in milk. **1935**, 255.
- Micro-estimation** of glutathione; Glyoxalase as a reagent for the quantitative —. G. E. Woodward, **1935**, 423.
- Micro-extraction** apparatus. E. B. Colegrave, **1935**, 90.
- apparatus (for examination of paintings, etc.). H. Hetterich, **1932**, 542.
- Micro-Extractor**. L. Titus and V. W. Meloche, **1934**, 136.
- Micrographic** detection of tartaric acid in official preparations. M. François and C. Norman, **1927**, 161.
- Micro-Gravimetric** analyses; Filter for —. P. L. Kirk and R. Craig, **1932**, 127.
- analysis; Influence of electrical charge in —. W. M. Sperry, **1933**, 177.
- determination of silica in tissue. J. C. Morgan and E. J. King, **1932**, 339.
- determinations with minute quantities of material, using the electro-magnetic micro-balance. E. Wiesenberger, **1932**, 275.
- Micro Halogen** determination without combustion. A. Schloemer, **1933**, 246.
- Micro-Iodimetric** determination of iron. J. Straub, **1934**, 368.
- Micro Kjeldahl** determination of nitrogen; Gasometric —. D. D. Van Slyke, **1927**, 471.
- Micro Melting-Point** apparatus. L. Kofler and H. Hilbck, **1932**, 130.
- determinations. H. Linser, **1932**, 412.
- Micrometer**: New measuring —. J. H. Dowell, **1927**, 51.
- Micro Method** for detecting and determining laevulose in presence of dextrose, other aldoses or sucrose. F. Fischl, **1933**, 424, 570.
- for detecting monoses in presence of reducing bioses: H. Tauber, **1934**, 647.
- for determining ammonia. K. Linderstrøm-Lang and H. Holter, **1934**, 206.
- for determining carbon in organic compounds; A new —. H. L. Lochte, **1926**, 364.
- for determining chlorine and bromine in organic material; Alkalimetric —. M. K. Zacherl and H. G. Krainick, **1932**, 591.
- for determining cholesterol by oxidation of the digitonide. R. O'Key, **1930**, 654.
- for determining free and combined cholesterol. R. Schoenheimer and W. P. Sperry, **1934**, 773.
- for determining Hausmann numbers of proteins. K. V. Thimann, **1927**, 239.
- for determining iodates and sulphates and its application to determination of total base in blood serum; Gasometric —. D. D. Van Slyke, A. Hiller and K. C. Berthelsen, **1927**, 651.
- for determining methoxyl and ethoxyl groups; Modified —. H. R. Nanji, **1934**, 96.
- for determining pentoses and pentosans. G. E. Youngburg, **1927**, 484.
- for determining potassium as iodo-platinate. A. T. Shohl and H. B. Bennett, **1928**, 559.
- for determining semicarbazones and its application to the analysis of ketones. R. P. Hobson, **1929**, 562.
- for determining sugars. K. Linderstrøm-Lang and H. Holter, **1933**, 568.
- for determining the copper number of cellulose. T. F. Heyes, **1928**, 301.
- for determining the total creatinine in muscle. S. Ochoa and J. G. Valdecasas, **1929**, 247.
- for determining total solids; A new —. A. C. Rottinge, **1926**, 363.
- for determining urea. J. M. Luck, **1928**, 607.
- for determining uric acid in urine. P. Wenger, Ch. Cimerman and A. Maulbetsch, **1934**, 507.
- for determining uronic anhydride groups in pectic substances. H. W. Buston, **1932**, 220.
- for measuring the extent to which a cellulosic material has been chemically modified or degraded. C. R. Nodder, **1931**, 690.
- Micro Methods** of determining proteins in medicine and biology. A. Wasitzky, **1934**, 303.
- of gas analysis and applications, especially in biological work. H. Schwarz and F. Rappaport, **1934**, 138.
- Micro-Mounting** of mould fungi. **1927**, 295.

- Micro-Organisms** and the synthesis of carotene and vitamin A. C. A. Baumann and Others, **1934**, 121.
 belonging to the paratyphoid group; Haemolytic properties of —. C. P. Eliot and W. W. Ford, **1931**, 58.
 Effect of fermentation with specific — on the vitamin C content of orange and tomato juice. S. Lepkovsky and E. B. Hart, **1926**, 155.
 Formation of organo-metalloidal compounds by —. I. Trimethylarsine and dimethyl-ethylarsine. F. Challenger, C. Higginbottom and L. Ellis, **1933**, 235.
 halophilic —; Examination for. W. Clayton and W. E. Gibbs, **1927**, 395.
 in a suspension; Rapid and accurate method for determining the quantity of yeast and —. R. J. Williams, E. D. McAlister and R. R. Roehm, **1929**, 613.
 Individual resistance of —, especially yeasts, to ultra-violet rays. J. Beauverie, **1934**, 563.
 on chilled and frozen meat; Growth of —. R. B. Haines, **1931**, 611.
 Preservation of stock cultures of —. A. C. Thaysen, **1935**, 112.
 Relation of — to the decay of stone. **1934**, 757.
 used in sugar analysis. V. J. Harding and T. F. Nicholson, **1934**, 54.
- Micro-Potentiometric** titration. I, Titration in macro drops. K. Schwarz, **1934**, 849.
- Micro-Reaction** for benzoic acid. **1931**, 303.
- Micro-Reactions**: Colorimetric — of the glutogenic protides and cellulosic gels of the wheat grain. P. Bruère, **1931**, 66.
- Micro-Separation** of barium and calcium. R. Strebinger, **1930**, 298.
- Microscope**: History of the —. R. S. Clay and T. H. Court. (Review), **1933**, 649.
 Polarising — as a laboratory instrument. A. V. Blom, **1926**, 111.
 Travelling —. **1934**, 659.
 Vacuum sublimation under the —. L. Kofler and W. Dernbach, **1932**, 336.
- Microscopic** examination; Polishing and etching lead, tin, and some of their alloys for —. J. R. Vilella and D. Beregekoff, **1927**, 732.
 Pharmacognosy. (Review), W. Mansfield, **1930**, 531.
 work; Mounting media for —. J. M. Preston, **1930**, 416.
- Microscopical** examination; New method of mounting vegetable powders for —. W. O. Howarth, **1929**, 494.
 examination of cotton hairs. T. B. Bright, **1926**, 593.
 pollen analysis of honey. C. Griebel, **1930**, 583.
- Microscopy**: Fluorescence —. P. Metzner, **1932**, 130; with strong illumination, M. Haitinger, **1932**, 131.
 Handbook of Chemical —. Vol. I. (Review), E. M. Ghamot and C. W. Mason, **1930**, 470; Vol. II, 2nd Ed., **1931**, 559.
 Industrial —. (Review), W. Garner, **1933**, 313.
- Microscopy—continued.**
 of Drinking Water. (Review), G. C. Whipple, **1928**, 359.
 Practical —. (Review), L. C. Martin and B. K. Johnson, **1932**, 203.
 Recent Advances in —. Biological Applications. (Review), A. Piney, **1931**, 695.
 Textile —. (Review), L. G. Lawrie, **1928**, 407.
- Micro Soxhlet** extractor; A simple —. A. Wasitzky, **1933**, 56.
- Microspectroscopical** examination of blood. M. Wagenaar, **1930**, 405.
- Micro-Sublimates** of synthetic compounds used in medicine; Crystallographic examination of —. W. Haas, **1931**, 136.
- Micro-sublimation**: Apparatus and methods for —. R. Fischer, **1935**, 123.
- Micro Sugar Reagent**: Effect of potassium iodide in the Shaffer-Hartmann —. W. A. de Long, **1927**, 350.
- Micro-test** for caesium. H. C. Goswami and P. B. Sarkar, **1935**, 848.
 for nitrous acid. J. V. Dubský, J. Trtřlek and A. Okáč, **1935**, 200.
- Micro Time Method** for determining reducing sugar, and its application to analysis of urine and blood. J. A. Hawkins, **1929**, 750.
- Micro-Titration** of chromic and barium ions. R. F. le Guyon, **1927**, 365.
 of iodides, in absence or in presence of large proportions of nitrite. J. F. Reith, **1929**, 371.
- Micro-Titrimetric** determination of nicotine in tobacco. J. Bodnár and v. L. Nagy, **1934**, 574.
- Micro Vacuum** distillation. R. A. Smith, **1932**, 674.
 sublimation of synthetic compounds used in medicine. R. Eder and W. Haas, **1931**, 135.
- Micro Vapour Density** determination. I, Determination of molecular weight. J. B. Niederl and W. J. Saschek, **1933**, 114; II, Determination of boiling points. J. B. Niederl and I. B. Routh, **1933**, 115.
- Micro-volumetric** analysis; Use of indigo carmine in —. I. M. Korenman, **1935**, 782.
 analysis with diphenylcarbazine and diphenyl-carbazone as indicators in mercury titrations. J. V. Dubský and J. Trtřlek, **1934**, 304.
 determination of methoxyl. D. T. Gibson and T. H. Caulfield, **1935**, 845.
 determination of sulphur and chlorine in organic compounds with the use of an assay balance. D. W. Cowie and D. T. Gibson, **1934**, 388.
 determination of sulphur in organic compounds containing halogen and nitrogen. D. T. Gibson and T. H. Caulfield, **1935**, 522.
- Middlings** and the Wheat Act. R. & W. Paul, Ltd. v. Wheat Commission. (Legal Notes), **1934**, 406.
 Liability of certain consignments of imported — to quota payments under Wheat Act, 1932. R. & W. Paul, Ltd. v. Wheat Commission. (Legal Notes), **1935**, 95.

- Mianda Seed Oil**: 1929, 750.
- Mikroanalyse**: Praxis der Quantitative Organischen —. (Review), A. Friedrich, 1933, 725.
- Quantitative Organische —. 3rd Ed. (Review), F. Pregl, 1930, 304.
- Mikrobin** in wine. C. von der Heide and R. Föllen, 1927, 600.
- Mikrobin-P** as preservative for bread. 1931, 542.
- Mikrochemie**: Pregl-Festschrift. (Review), 1930, 358.
- Mikrochemisches Praktikum**: 2nd Ed. (Review), F. Emich, 1931, 138.
- Mikro-Massanalytische Bestimmung** des Kohlenstoffes und Wasserstoffes. J. Lindner, 1935, 728.
- Mikromethoden**: Quantitative Analytische — der Organischen Chemie in vergleichender Darstellung. (Review), C. Weygand, 1932, 415.
- Milch**: Refraktometrische Untersuchung der —. (Review), E. Reiss, 1929, 127.
- Mildew** in cotton goods; Fungi causing —. L. D. Galloway, 1930, 523.
- in cotton goods; Identification of fungi causing —. The genus *Aspergillus*. G. Smith, 1928, 296.
- in textiles. L. D. Galloway, 1935, 425.
- stains; Removal of —. 1932, 166.
- Milk**: Abnormal —. 1929, 740.
- abstraction of fat from —; Place of. 1935, 754.
- acidity and freezing-point of —; Investigation on the relations between the. A. J. Parker and L. S. Spackman, 1929, 217.
- Action of — on aluminium. A. G. C. Gwyer and N. D. Pullen, 1932, 704.
- Action of typhoid bacillus on —. C. Gorini, 1926, 641.
- added phenol and cresol in —; Determination of. H. T. Fawns, 1928, 489.
- added water in —; Cryoscopic method for detecting. R. L. Andrew, 1929, 210.
- added water in —; Diphenylamine test for nitrates in — as means of detecting. D. R. Wood, E. T. Illing and A. E. Fletcher, 1931, 248.
- added water in —; Freezing-point test for. 1932, 246.
- added water in —; Nitrate test for detecting. G. W. Monier-Williams, 1931, 397.
- added water in —; Nitrates as evidence of. D. R. Wood, 1932, 375.
- Adenine nucleotide present in —. H. D. Kay and P. G. Marshall, 1928, 391.
- adulteration and the freezing-point test. 1932, 29.
- adulteration in Cyprus. 1935, 179.
- Adulteration of — with water. The Hortvet test. (Legal Notes), 1934, 691.
- Alkaline — and its detection by the brom-cresol purple test. I. F. Proctor and A. T. R. Mattick, 1926, 197.
- amylase in —; Test for. P. Weinstein, 1930, 582.
- An inquiry into some problems connected with —. C. J. H. Stock, 1930, 535.
- Milk**—continued.
- Anaemia produced on diets of whole — and iron proved to be due to deficiency of copper. J. Waddell, H. Steenbock, C. A. Elvehjem, and E. B. Hart, 1929, 556.
- Anaerobic spore-bearing bacteria in —. E. A. Bliss, 1926, 589.
- analysis; Further work on the refractometer in —. G. D. Elsdon and J. R. Stubbs, 1930, 618.
- Analysis of —: Evidence by the Public Analyst's Assistant. (Legal Notes), 1930, 39.
- analysis; The immersion refractometer and its value in —. G. D. Elsdon and J. R. Stubbs, 1927, 193.
- and contagious abortion. 1933, 758.
- and its Products. U.S. Food Inspection Decision No. 200. 1926, 580.
- Annatto in —. 1933, 471.
- antirachitic factor in human — and cow's —; Quantitative comparison of. J. Outhouse, I. G. Macy and V. Brekke, 1928, 450.
- Antirachitic value of cows' — as modified by exposure of the cow to sunlight and to radiations from a quartz mercury vapour lamp. H. Steenbock and Others, 1930, 457.
- antirachitic vitamin in different samples of butter, cod-liver oil and —; Variations in amounts of. K. H. Coward, 1929, 302.
- "Apparent ropiness" (thread formation) in — due to surface influence. A. T. R. Mattick, 1926, 527.
- Appeal to the Cow samples of —. 1930, 387; 1932, 456.
- Application of Arnold's sodium nitroprusside reaction for proteins to —. 1933, 408.
- as cause of paratyphoid fever. 1931, 743.
- Average composition of —. 1929, 467.
- B. abortus* in — of English herds; Investigation of the occurrence of. D. R. Wood and E. T. Illing, 1931, 105.
- B. coli communis* and *B. lactis aerogenes* in samples of —; Significance of. C. H. Chalmers, 1934, 296.
- Bacteria in commercial —. 1931, 658.
- bacterial activity in —; Stimulation of. C. Gorini, 1926, 530.
- Bacterial contamination of —. 1926, 245.
- Bacterial count of whole — in relation to that of cream and skim — separated from it. C. S. Leete, 1926, 208.
- Bacteriological standards for bottled new — and sterilised —. 1931, 600.
- Bacteriological tests for graded —. Ministry of Health Report. 1929, 235.
- Bacterium pruni* in —; Identification of some of the products formed by. S. L. Jodidi, 1927, 486.
- beet odour and taste in —; Cause of. P. Post, 1931, 402.
- Bibby's Book on —. (Review), 1933, 59.
- biological properties of —; Hygienic evaluation of the. M. A. Dychno and O. M. Briskin, 1928, 229.
- Biological test for pasteurised —. 1930, 14.
- Boric acid in —. 1929, 649.
- borne diphtheria. C. J. McSweeney and W. P. Morgan, 1928, 676.

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- bottles; Effect of alkali solutions on bacteria found in unwashed —. C. S. Mudge and B. M. Lawler, **1928**, 394.
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- Byre samples of —. Variations in proportions of butter fat in milk from single cows and herds of cows. **1927**, 470.
- calcium in —, tissues and faeces; Determination of. R. C. Corley and W. Denis, **1926**, 208.
- calcium in human — direct precipitation of. C. S. Rothwell, **1927**, 716.
- Calcium, magnesium and acid-soluble phosphorus in — determined by means of trichloroacetic acid filtrates. G. P. Sanders, **1931**, 401.
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- catalase; Kinetics of — on heating. A. I. Burstein and F. S. Frum, **1932**, 116.
- Catalase reaction of —. P. Weinstein, **1930**, 581.
- Certificate; Form of —. **1934**, 539.
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- chlorides in —; Mercurimetric determination of. E. Geyer and A. Rotsch, **1933**, 162.
- chlorine and sodium in — of certain mammals; Determination of. L. Barthe and E. Dufilho, **1927**, 715.
- chlorine in —; Determination of. A. D. Husband and W. Godden, **1927**, 288.
- Citric acid in —; Determination of. B. G. Hartmann and F. Hillig, **1933**, 38.
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- Citric acid in boiled —. B. Rogina, **1935**, 621.
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- Combination of proteins, amino-acids, etc. (in —), with acids and alkalis, and their combining weights. L. J. Harris, **1926**, 39.
- Composition of — in "Appeal to the Cow" cases. J. F. Liversidge, **1926**, 295.
- composition of —; Notes on variations in the. J. F. Tocher, **1926**, 606.
- Condensed —. See **Condensed Milk**.
- Conditions of the production of — in the Netherlands and Denmark. (Ministry of Health Report). **1928**, 283.
- Copper content of —. G. N. Quam and A. Hellwig, **1928**, 542.

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- copper content of —; Effect of diet on. C. A. Elvehjem, H. Steenbock and E. B. Hart, **1929**, 555.
- Copper determination in foods, with special reference to —. N. D. Sylvester and L. H. Lampitt, **1935**, 376.
- copper in —; Determination of. L. W. Conn and Others, **1935**, 254.
- corrosion of copper by —; Influence of temperature on the rate of. G. N. Quam, E. I. Solomon and A. Hellwig, **1928**, 657.
- Corrosion of metals by —. H. A. Trebler, W. A. Wesley and F. L. LaQue, **1932**, 383.
- Cryolac number of —. **1932**, 456.
- Cryoscopic — test. **1930**, 515.
- Cryoscopy of South African —. L. Denis-Nathan, **1933**, 574.
- Cytology of tuberculous —. **1930**, 547.
- degree of heating of —; Investigation of. Orla-Jensen, **1932**, 383.
- Determination of ammonium salts as an indication of the quality of —. A. I. Burstein and F. S. Frum, **1935**, 699.
- Dialysis of —. Distribution of phosphorus. L. H. Lampitt and J. H. Bushill, **1933**, 615.
- Dialysis of —; Factors affecting the distribution of calcium and phosphorus. L. H. Lampitt and J. H. Bushill, **1934**, 828.
- diastase. H. Kluge, **1933**, 168.
- dietary deficiencies of —; Nature of. J. E. Becker and E. V. McCollum, **1930**, 704.
- Diphenylamine test for nitrates in —. **1930**, 434.
- diphenylamine test for nitrates in — and its reliability in the presence of small quantities of chlorine; Note on. D. R. Wood, E. T. Illing and A. E. Fletcher, **1934**, 400.
- Dirt in —. **1927**, 409; **1928**, 652; **1930**, 631; **1931**, 657; **1933**, 401; **1935**, 754.
- Dirt in Madras —. **1927**, 157.
- Dirty sediment in —. **1927**, 702.
- Dried —. Ministry of Health Regulations. **1927**, 537.
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- Dutch regulations for —. **1932**, 20.
- Effect of alteration of milking hours on fat of —. **1930**, 541.
- Effect of heat on —. IV, The iodine content. H. E. Magee and A. E. Glennie, **1928**, 290.
- Effect of heat on —. (a) On the coagulability by rennet, and (b) on the nitrogen, phosphorus and calcium contents. E. C. V. Mattick and H. S. Hallett, **1929**, 557.
- Effect of standing on solids-not-fat in —. **1930**, 543.
- evaporated; Stability of — during sterilisation. A. G. Benton and H. G. Alberty, **1926**, 413.
- Examination of 1000 samples of — by the Hortvet freezing-point process. J. R. Stubbs and G. D. Elsdon, **1934**, 146.
- Factors affecting the yield and quality of —. I, The age of the cow. R. R. Kay and H. C. McCandlish, **1929**, 353.
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-fat in milk chocolate; Determination of — by means of a modified xylene number. C. A. Greenleaf, **1927**, 647.

-fat; New distinguishing value for —. J. Kuhlmann and J. Grossfeld, **1926**, 305.

-fat of Indian camels; Component fatty acids and glycerides of —. D. R. Dhingra, **1934**, 554.

-fat tubes; Aid to reading of Gerber—. E. B. Grayson, **1934**, 29.

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Freezing-point of — as a means of detecting added water. G. D. Elsdon and J. R. Stubbs, **1930**, 423.

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Human — studies. XIV, Critique of the determinations of nitrogenous constituents. B. N. Erickson, N. Stoner and I. G. Macy, **1934**, 191.

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- irradiated-; Therapeutic value of — in the treatment of rickets. C. Watson, T. Y. Finlay and J. B. King, **1929**, 673.
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- irradiated-; Vitamin A potency of —. G. C. Supplee and O. D. Dow, **1927**, 720.
- Irradiation of — for increasing its antirachitic potency. D. Nabarro and J. O. Hickman, **1930**, 206.
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- Manganese content of —. G. Büttner and A. Miermeister, **1933**, 615.
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- pasteurising plant. Ministry of Health Circular 1473. **1935**, 763.
- pasteurising plants; Supervision of —. Ministry of Health Public Health Report No. 77. Sir W. Dalrymple-Champneys, **1935**, 408.
- Pathogenic bacteria and mixed enzymes of —. C. Gorini, **1927**, 486.
- peroxidase. Its preparation, properties and action with hydrogen peroxide on metabolites. K. A. C. Elliott, **1932**, 394.
- Phenols in sterilised —. A. T. R. Mattick, **1930**, 37.
- Phosphorus compounds of —. IV, Presence of adenine nucleotide in —. H. D. Kay and P. G. Marshall, **1928**, 391.
- powder; Physico-chemical constitution of —. L. H. Lampitt and J. H. Bushill, **1931**, 778.
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- Preservation of — for determining the freezing point. Rüdiger, **1932**, 578.
- product in a mixed feed determined by determination of lactose present. M. R. Coe, **1928**, 441.
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- products; Dutch regulations for ——. **1932**, 20.
- Products Sub-Committee to the Standing Committee on Uniformity of Analytical Methods. Report No. 1. **1927**, 402; Report No. 2: Determination of sucrose in sweetened condensed milk. **1930**, 111; Report No. 3: Analysis of sweetened condensed milk in which the sucrose has altered during storage. **1932**, 630. Erratum, **1933**, 30.
- protein surrounding the fat globules in —; Nature of. R. W. Titus, H. H. Sommer and E. B. Hart, **1928**, 163.
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- Purchase of — on a Quality (Composition) Basis. H. T. Cranfield and J. W. Blood, **1933**, 574.
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- Relation between the vitamin B content of the "feed" eaten and that of the — produced. S. I. Bechdel and H. E. Honeywell, **1927**, 721.
- Relation of the hydrogen ion concentration to the titratable acidity of —. P. F. Sharp and T. J. McInerney, **1927**, 715.
- Relative antineuritic and antipellagic potency of cow's —. C. H. Hunt and W. E. Krauss, **1928**, 668.
- Rennin coagulation of —. Effect of hirudin, of heparin, of cephalin and of fat removal. J. B. Stone and C. L. Alsberg, **1928**, 503.
- Report of the Reorganisation Commission for —. Ministry of Agriculture and Fisheries Report, Economic Series, No. 38. **1933**, 538.
- Residual-current measurements in control of metal solution in —. H. T. Gebhardt and H. H. Sommer, **1931**, 814.
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- Sampling of —. (Legal Notes). Greenwood v. Hannam, **1933**, 402.
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- Sheep's —. **1932**, 252.
- sickness. Tremetol, the compound that produces "trembles" (—). J. F. Couch, **1930**, 150.
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- Stale — and the reductase test. (Legal Notes), **1926**, 458.
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- sucrose in mixtures of sucrose and —; Polarimetric determination of. G. W. Monier-Williams, **1928**, 569.
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- Thermophilic bacteria in —. M. O. Eckford, **1927**, 426; M. I. Christian, **1931**, 411.
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- Tuberculin tested —. (Parliamentary Notes), **1926**, 244.
- Variations in the composition of —. J. F. Tocher, **1926**, 146.
- Variations in the composition of —. (Ministry of Agriculture Bull., No. 16, 2nd Ed.), **1935**, 554.
- Variations in the composition of —. Society of Public Analysts' letter to the Ministry of Agriculture and Fisheries. **1929**, 472.
- Variations in the pH value during the souring of —. S. N. Mayoroff, **1935**, 556.
- vitamin A content of —; Effect of pimienta feeding on. **1935**, 826.
- Vitamin A in — destroyed by ultra-violet light. R. W. Titus, J. S. Hughes, W. R. Hinshaw and J. B. Fitch, **1926**, 530.
- vitamin A and B content of cow's —; Note on the. J. Outhouse, I. G. Macy, V. Brekke and A. Graham, **1927**, 425.
- vitamin B and C content of —; Influence of the ration of the cow upon. C. H. Hunt and W. E. Krauss, **1931**, 681.
- vitamin C content of —; Relation between the vitamin C content of a cow's ration and the —. J. S. Hughes, J. B. Fitch, H. W. Cave and W. H. Riddell, **1927**, 166.
- vitamin C in —; Causes of instability of. J. E. Jacobsen, **1935**, 565.
- vixen —; Composition of. E. G. Young and G. A. Grant, **1932**, 49.
- winter-; Influence of the cow's diet on the fat-soluble vitamins of —. J. Golding and S. S. Zilva, **1928**, 295.
- Milk Act, 1934: 1935**, 693.
- Milk and Dairies (Amendment) Act, 1922:** Summons under —. (Legal Notes), **1932**, 164.
- Milk and Dairies Bye-Laws in Gibraltar. 1934**, 689.
- Milk and Dairies Order, 1926: 1926**, 197; **1927**, 154.
- Statutory Rules and Orders, 1926, No. 821. Ministry of Health. **1926**, 577.
- Milk Chocolate:** Analysis of commercial —. **1927**, 328.
- Determination of milk fat in — by means of a modified xylene number. C. A. Greenleaf, **1927**, 647.
- Milk of Magnesia:** U.S.P. test for soluble alkalis and alkalinity in —. H. Wales, **1934**, 763.
- Milks:** Comparison of raw, pasteurised, evaporated and dried — as sources of calcium and phosphorus for the human subject. M. M. Kramer, E. Latzke and M. M. Shaw. **1928**, 607.
- evaporated; Vitamin A in — made by vacuum and aeration methods. R. A. Dutcher, H. E. Honeywell and C. D. Dahle, **1927**, 720.
- low in solids-not-fat; Refraction of —. G. D. Elsdon and J. R. Stubbs, **1929**, 318.
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- Mill** for small samples. W. H. Cook, E. P. Griffing and C. L. Alsborg, **1932**, 338.
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- Millet Oil:** Characteristics of —. W. E. Smith and E. K. Waller, **1933**, 319.
- Millet Seed Oil:** S. Ueno and N. Kuzei, **1931**, 117; A. Steger and J. van Loon, **1934**, 186.
- Milling Products:** Distribution of vitamin A in some maize —. C. R. Meyer and R. A. Hetler, **1930**, 149.
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- Millon test** (phenol tests). H. D. Gibbs, **1927**, 169.
- Milton, John:** Some newly-discovered Stanzas written by —. (Review), H. C. H. Candy, **1926**, 222.
- Mince:** Sulphur dioxide in —. **1930**, 387; **1935**, 403.
- Mince Meat:** Boron compounds in —. **1929**, 18.
- Mineral** colouring matter in "pure" gelatin; Presence of blue —. A. L. Bacharach and G. N. Grinling, **1930**, 566.
- content of apples. D. Haynes and J. W. Brown, **1928**, 658.
- matter in sugar confectionery. **1932**, 30.
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- Mineral Oils:** asphalt content of —; Determination of. J. Marcusson, **1927**, 300.
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- retained by leaf surfaces after spraying; Determination of —. L. H. Dawsey and A. J. Haas, **1933**, 299.
- testing; Laboratory book of —. 4th Ed. (Review), J. A. Hicks, **1926**, 217.
- Mineral Waters** and their salts; Control of — under the Federal Food and Drugs Act, U.S.A. (Legal Notes), **1930**, 449.
- Contamination of — with *B. coli*. (Legal Notes), **1927**, 412.
- International standard measurements for analysis of —. **1929**, 33.
- Natural occurrence of boron compounds in —. **1927**, 459.
- of Italy. (Review), **1934**, 582.
- Rubidium and caesium determined in —. L. Fresenius, **1931**, 834.
- Silica in —. P. Hefferman, **1929**, 686.
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- Mineralanalyse:** Tabellen zur Berechnung von —. H. v. Philipsborn. (Review), **1933**, 429.
- Minerals:** boron in —; Test for. **1934**, 721.
- carbon in —; Determination of. B. E. Dixon, **1934**, 739.
- containing rarer elements; Japanese —. Analysis of beryl from Iwaki Province. T. Uemura, **1928**, 674.
- Photography of fluorescent —. W. M. Thornton and M. N. Lewis, **1935**, 785.
- Sands, — and Clays. Vol. I, No. 2, **1933**, 126; No. 3, **1933**, 314; No. 4, **1933**, 574; Vol. II, No. 1, **1934**, 310.

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Mines Department: See Safety in Mines Research Board.**Ministry of Agriculture and Fisheries: Agricultural Produce (Grading and Marking) Regulations. 1930, 45, 328.**

Agricultural Produce (Grading and Marking) (Eggs) Regulations, 1930. **1930**, 635.

Agricultural Produce (Grading) (Potatoes) Regulations, 1929, No. 1117. **1931**, 43.

Egg preservation and the registration of premises. **1929**, 746.

Fertilisers and Feeding Stuffs Act, 1926. **1929**, 344.

Report of the Reorganisation Commission for milk. Economic Series, No. 38. **1933**, 538.

Report on mussel purification. R. W. Dodgson, **1929**, 158.

Retail trade names for fish. Notice No. 23. **1935**, 178.

Society of Public Analysts' letter to — on "Variations in the composition of milk." **1929**, 472.

Specifications and methods of analysis of certain insecticides and fungicides. Bull. No. 82. **1934**, 694.

Statutory Rules and Orders, 1930. No. 132. Agricultural Produce (Grading and Marking), England. **1930**, 698.

Statutory Rules and Orders, 1930, No. 370. **1931**, 108.

Statutory Rules and Orders, 1931, No. 168. Cider. **1931**, 317.

Statutory Rules and Orders, 1931, No. 458 (Fruits) and No. 442 (Vegetables). **1932**, 463.

Statutory Rules and Orders, 1933, No. 538. Canned Fruits. **1933**, 476.

Statutory Rules and Orders, 1933, No. 540. Malt Flour and Malt Extract. **1933**, 540.

Statutory Rules and Orders, 1933, No. 592. Wheat and Flour. **1933**, 478.

Statutory Rules and Orders, 1933, No. 664. Jam. **1933**, 545.

Statutory Rules and Orders, 1933, No. 677. Cheshire Cheese. **1933**, 544.

Variations in the composition of milk. Bull. No. 16. **1935**, 554.

Ministry of Health Reports, Circulars, etc. Antimony in enamelled hollow-ware. G. W. Monier-Williams. Public Health Report, No. 73. 1934, 489.

Antimony poisoning due to the use of enamelled vessels. Memo 171, Med. **1933**, 226.

Artificial Cream Act, 1929 (No. 989). **1929**, 344.

Bacteriological tests for graded milk. **1929**, 235.

Condensed Milk. Dried Milk. **1927**, 537.

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Contamination of apples by arsenic. Circular 659. **1926**, 38.

Ministry of Health Reports, etc.—continued.

Determination of benzoic acid in foodstuffs. Report No. 39. G. W. Monier-Williams, **1927**, 153, 229.

Determination of sucrose, lactose and invert sugar in sweetened condensed milk. Public Health Report No. 57. G. W. Monier-Williams, **1930**, 573.

Determination of sulphur dioxide in foods. Report No. 43. G. W. Monier-Williams, **1927**, 343, 415.

Effect on Foods of Fumigation with Hydrogen Cyanide. Public Health Report No. 60. **1931**, 46.

Food and Drugs (Adulteration) Act, 1928. Damaged tea and tea sweepings. No. 1059. **1930**, 133, 393.

Fumigation of ships with hydrogen cyanide. **1928**, 341.

Imported Milk. Public Health Statutory Rules and Orders, 1926. **1926**, 197, 577; **1927**, 154.

Milk and Dairies Order, 1926. **1926**, 197, 577; **1927**, 154.

Milk and Dairies, England. Milk (Special Designations) Order, 1934. **1935**, 694.

Milk pasteurising plants. Circular 1473. **1935**, 763.

Occurrence of glass fragments in foods packed in glass containers. No. 37. G. L. Hancock, **1927**, 284.

Postponement of food preservatives regulations. **1926**, 351.

Preservatives in Food. Public Health Regulations. Draft Rules and Orders, 1926. **1926**, 578.

Preservatives, etc., in Food. Public Health Amendment Regulations, 1926. No. 1557. **1927**, 33.

Preservatives in Food. Public Health Provisional Regulations, 1927. **1927**, 285; Circular 782, **1927**, 286.

Preservatives Regulations. Government Laboratory Report on —. **1928**, 595.

Public Health (Condensed Milk) Amendment Regulations, 1927. No. 1092. **1928**, 98.

Public Health (Dried Milk) Amendment Regulations, No. 1093, 1927. **1928**, 98.

Public Health, England, Amendment Regulations. Circular No. 577. **1927**, 479.

Public Health (Preservatives, etc., in Food) Regulations. Circular 852. **1928**, 42.

Report of the Chief Medical Officer for the year, 1932. Sir G. Newman, **1933**, 757.

Sale of Food and Drugs Act. Annual Report of — for 1925-26 and Abstract of Reports of Public Analysts for 1925.

1926, 575; for 1926-27, **1927**, 712; for 1927-28, **1928**, 651; for 1928-29, **1930**, 44;

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Sale of Food and Drugs Acts Memorandum. Circular 762. **1927**, 84.

Sulphur dioxide in pearl barley. (Letter regarding Preservatives Regulations), **1927**, 416.

Supervision of milk pasteurising plants. Report No. 77. Sir W. Dalrymple-Champneys, **1935**, 408.

Ministry of Health Reports, etc.—continued.

Treatment of flour with chemical substances; Report of Departmental Committee on —, 1927, 226.

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Miscometer: An apparatus for obtaining composite samples. J. Houston, 1926, 453.

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Mitchell's Ferrous Tartrate Reagent: Use of — in studying the precipitation of alkaloids by tannin. A. E. Jones, 1928, 429.

Mitragynine: A new alkaloid from *M. Speciosa*. 1926, 463.

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Mitrovernine: A new alkaloid from *M. diversibilia*. 1926, 463.

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Mobilometer: Applications of a —, H. A. Gardner and A. W. Van Heuckeroth, 1927, 497.

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Mohler's Test for benzoic acid. E. T. Illing. I, Investigation into Grossfeld's modification of —, 1932, 224; II, Application of — to the detection and determination of benzoic acid in foodstuffs. 1932, 226.

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Gasometric calcium carbide method for determining —, W. A. Jakowenko, 1926, 106.

Gasometric determination of water (—) by means of calcium hydride. O. Notevarp, 1930, 344.

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Molasses: Some organic acids of sugar cane —, E. K. Durham, 1929, 670.

Molds, Yeasts and Actinomycetes. A. T. Henrich. (Review), 1930, 774.

Molecular Weights: Apparatus for determining — by the boiling point method. H. Rupe and N. Wassilieff, 1928, 510.

Dioxan as solvent in determining — by the cryoscopic method. A. E. Oxford, 1934, 850.

Improved micro-apparatus for determining —, A. F. Colson, 1932, 757.

Micro-determination of —, J. B. Niederl and W. J. Saschek, 1933, 114.

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Molecular Rearrangements. (Review), C. W. Porter, 1929, 261.

Molecules: Atoms and —, (Review), R. M. Caven, 1928, 309.

Polar —, (Review), P. Debye, 1930, 71.

Molluscs: Sterols of —, W. Bergmann, 1934, 294.

Molybdate method of separating calcium and magnesium. R. C. Wiley, 1931, 417.

Preparation of sodium tungstate free from —, O. Folin, 1934, 764.

Molybdenum: Aluminium in presence of — precipitated by means of *o*-hydroxyquinoline. T. Heczko, 1935, 120.

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Colorimetric determination of —, A. D. Funck, 1926, 537.

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Determination of — as silver molybdate. L. W. McCay, 1935, 198.

Determination of — by means of *o*-hydroxyquinoline. G. Banulescu, 1930, 716.

Effect of pH on precipitation of — from acetate solutions. H. R. Fleck and A. M. Ward, 1933, 388.

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- Molybdenum-Blue** for the micro-determination of phosphoric and arsenic acids. S. Zinzadze, **1932**, 411.
- Molybdenum-Steels**: vanadium in —; Determination of. **1928**, 428.
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- Molybdic Reagents**: Reduction of — by cherry laurel water. F. Morvillez and Defosse, **1932**, 581.
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- Monobromoguaiaacol Carbonate**: Determination of guaiacol carbonate. L. H. Chernoff, **1929**, 756.
- Mono-calcium Phosphate**: Determination of — by means of urea. C. W. Whittaker, F. O. Lundstrom and W. L. Hill, **1935**, 334.
- Monocarboxylic Chrysanthemic Acid**: Colour reaction of —. M. Audiffren, **1934**, 556.
- Monochromatic Light**: Formation of vitamin D by —. A. L. Marshall and A. Knudson, **1930**, 593.
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- fungi; Inhibitory action of certain substances on the growth of —. R. G. Fargher, L. D. Galloway and M. E. Probert, **1930, 524.**
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- Mounting** media for biological tissues. W. Marshall, **1930, 416.**
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- Mowha** fat. D. R. Dhingra, G. L. Seth and P. C. Speers, **1933, 350.**
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- Mucoproteins**: Hexosamines and —. (Review), P. A. Levene, **1926, 57.**
- Muir, Sir Richard**: A Memoir of a Public Prosecutor. (Review), S. T. Felstead, **1927, 375.**
- Müller and Rudolph's** method for the electro-metric determination of copper. M. E. Pring and J. F. Spencer, **1929, 509.**
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- Mushrooms**: Essential oils from —. F. W. Freise, **1935, 414.**
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- Soluble enzymes secreted by hymenomycetic —. Comparison of the anti-oxygenic power of tannin and of the phenolic constituents of essential oils. L. Lutz, **1931, 820.**
- Musk**: Natural —. A. Wagner, **1936, 593.**
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- Mustard Seed Oil**: linseed oil in —; Microbromide test for detecting. S. Neogi, **1935, 91.**
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- "Rapic acid" and other acids of —. T. P. Hilditch, T. Riley and N. L. Vidyarthi, **1928, 109.**
- Musts**: Radioactivity of —. E. Canals and A. Médaille, **1933, 644.**

- Mutton**: Chemical changes in fat of frozen —. C. H. Lea, **1931**, 538.
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- Mydriatic** alkaloids; Formula for calculating composition of mixtures of —. J. C. Munch and G. S. Gittinger, **1929**, 47.
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- Myoalbumin**: Acetone method of preparing —; its principal properties. M. Piettre, **1926**, 45.
- Myogen**: Determination of —. **1935**, 44.
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- Myosin**: Determination of —. **1935**, 45.
- Myriapoda**: Toxic properties of —. **1926**, 350.
- Myristic Acid**: Glycerides of —. A. Bömer and K. Ebach, **1928**, 603.
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- Myristica Malabarica**: Fatty acid and glyceride structure of the seed fat of —. G. Collin, **1933**, 351.
- Myrrh**: Tincture of —. Condemned samples. **1929**, 31.
- N**
- Nahrungs- und Genussmittel**: Die Chemie der —. (Review), F. Fuhrmann, **1927**, 499.
- Nahrungsmitteln**: Methoden der Bakteriologischen Untersuchungen von —. (Review), W. Gaehetgens, **1926**, 377.
- Naphtha**: mercaptans in —; Determination of. P. Borgstrom and E. E. Reid, **1929**, 767.
solutions; Determination of sulphur and sulphur derivatives of hydrocarbons in petroleum distillates and —. W. F. Faragher, J. C. Morrell and G. S. Monroe, **1928**, 54.
- Naphthalene**: Determination of — by means of picric acid. A. P. W. Münch and R. T. Heukers, **1935**, 634
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- Naphthalene-Sulphonic Acids**: Arylamine salts of the —. III, Separation of crocein, Schäffer, R and G acids and their arylamine salts. R. B. Forster and C. M. Keyworth, **1927**, 169.
- Naphthas**: Coal-tar —; British Standard Specifications for. No. 479. **1933**, 314.
- Naphthazarin** for the micro-detection of magnesium and aluminium. J. V. Dubský and E. Wagner, **1935**, 641.
- Naphthene hydrocarbons** in light oils and motor spirits; Determination of —. A. B. Manning and F. M. E. Shepherd, **1930**, 757.
hydrocarbons in motor fuels; Determination of unsaturated, aromatic, paraffin and —. G. Egloff and J. C. Morrell, **1926**, 316.
- α -Naphthoflavone** as an indicator for bromate titrations. E. Schulek, **1935**, 718.
- α -Naphthol**: Reaction for —. O. Carletti, **1930**, 463.
- β -Naphthol**: Detection of —. G. De Haas, **1931**, 202.
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- α -Naphthyl Isocyanate** as a reagent for alcohols. V. T. Bickel and H. E. French, **1926**, 263.
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- α -Naphthylamine** as fluorescence indicator. **1933**, 722.
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- β -Naphthylamine** as fluorescence indicator. **1933**, 722.
- α -Naphthylurethane** test for detecting glycerin in tobacco. **1926**, 385.
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- Narceine**: Bromine as a reagent in determining —. **1931**, 727.
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- Narcotic**: Banisterine, a new —. L. Lewin, **1928**, 389.
- Narcotics**: Cocaine and allylcocaine in —. **1931**, 606.
Intelligence Bureau. Annual Report for 1933. **1934**, 444.
- Narcotine** and its derivatives as antiscorbutics. O. Rygh and A. Rygh, **1932**, 188.
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Bromophenol blue as indicator for —. **1926**, 316.
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- Nasavusavu**: The hot springs of —. C. H. Wright, **1926**, 235.
- National Mark** malt. **1931**, 50.
- National Physical Laboratory**: Metrology Department. Tests on volumetric glassware. **1934**, 550.
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- Navy Bean**: Plant haemagglutinins, with special reference to a preparation from the ——. V. R. Goddard and L. B. Mendel, **1929**, 429.
- Neat's Foot Oil**: Influence of the stability to cold of — on the lubricating properties of compound oils prepared from it. P. Cuypers, **1930**, 211.
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- Neem Oil**: Composition of —. The so-called margosic acid. A. C. Roy and S. Dutt, **1930**, 50.
- Neoparsphenamine**: analysis and chemistry of —; Studies on the. A. E. Jurist and W. G. Christiansen, **1928**, 166.
- Neodymium**: Atomic weight of —. **1928**, 160; **1929**, 296; **1934**, 547.
- Neon**: Atomic weight of —. **1928**, 160, 289; **1929**, 295; **1934**, 547.
in natural gases; Quantitative determination of —. N. P. Béntcheff, **1929**, 617.
light; Action of — on bacteria. A. Philibert and J. Risler, **1927**, 97.
- Neosalvarsan**: Toxicity tests for —. Medical Research Council Special Report No. 128. E. H. Durham, J. H. Gaddum and J. E. Marchal, **1929**, 667.
- Neou Oil**: Fatty oil of —. A. Steger and J. Van Loon, **1934**, 288.
- Nephelometers**: Hellige-Duboscq Colorimeters and —. **1930**, 232.
- Nephelometric** determination of chloride. I. M. Kolthoff and H. Yutzy, **1933**, 421.
determination of pepsin. C. G. Van Arkel, **1929**, 762.
methods for determining some sulphur compounds in urine. W. Denis and L. Reed, **1927**, 95.
- Nephelometry**: Photometric Chemical Analysis. Vol. II, —. (Review), J. H. Yoe and H. Kleinmann, **1929**, 564.
- Nernst** micro-balance; Modification of —. **1934**, 136.
- Nerve and Digestive Tablets**. **1933**, 688.
- Nessler's Reagent**: Action of — on some ketonic alcohols and ketonic acids. G. Schuster, **1935**, 189.
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- Nesslerisation**: Determination of blood urea nitrogen by direct —. J. M. Looney, **1930**, 642.
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- Netherlands**: Conditions of the production of milk in Denmark and the —. (Ministry of Health Report). **1928**, 283.
- Neubauer's** chemico-physiological method for determining phosphoric acid and potash assimilable by soil. C. Antoniani and M. Nicolini, **1931**, 825.
- Neutral Red** as means of detecting volutin in the living yeast cell. L. Heucke and W. Henneberg, **1935**, 193.
- New Guinea** derris roots. **1934**, 289.
- New South Wales**: Report of the Government Analyst for 1927. T. Cooksey, **1928**, 536; for 1928, **1929**, 597; Appendix, **1929**, 601; for 1930, S. G. Walton, **1932**, 97.
- New Zealand** Amending Regulations under Sale of Food and Drugs Act, 1908. **1927**, 233.
bran and pollard; Determination of —. L. D. Foster, **1927**, 656.
butters; The fatty acids and component glycerides of some —. T. P. Hilditch and E. E. Jones, **1929**, 75. Erratum, **1929**, 152.
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Report of the Dept. of Agriculture for the year 1932. B. C. Aston, **1934**, 40; for 1933, **1934**, 825.
Report of the Dominion Analyst for 1924. J. S. Maclaurin, **1926**, 630; for 1925, **1927**, 347; for 1926, **1928**, 287; for 1927, **1929**, 289; for 1928, **1930**, 514; for 1929, W. Donovan, **1931**, 182; for 1930, **1932**, 311; for 1931, **1933**, 405; for 1932, **1934**, 347; for 1933, **1935**, 102.
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- Newcastle-under-Lyme**: Appointment of E. V. Jones as Public Analyst for Borough of —. **1934**, 108.
- Nickel**: Acidimetric determination of — as the nickeldicyandiamidine salt. P. Fluch, **1927**, 48.
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- in cobalt salts; Detection and colorimetric determination of — by means of formaldoxime. G. Denigès, **1934**, 200.
- in copper alloys; Rapid colorimetric determination of —. V. P. Ochotin and A. P. Sytschoff, **1932**, 798.
- in food and biological material; Bibliography on —. T. H. Pope, **1933**, 340.
- in organic material; Spectrographic determination of —. **1935**, 13.
- in presence of iron; Two sources of error in the electrolytic determination of —. C. Marie and J. Berthelot, **1927**, 48.
- in presence of much cobalt; Detection and determination of —. F. Feigl and H. J. Kapulitzas, **1931**, 204.
- in rock analysis; Determination of small quantities of —. H. F. Harwood and L. S. Theobald, **1933**, 673.
- in steel; Determination of small amounts of —. B. Jones, **1929**, 582.
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- micro-detection of —; Collected references to. K. Heller, **1933**, 305.
- Micro-determination of —. Collected References. Z. Stary, **1934**, 507.
- New reaction for —. Action of concentrated hydrobromic and hydriodic acids on the cobalt ion. G. Denigès, **1926**, 478.
- Physiological importance of —. G. Bertrand and H. Nakamura, **1927**, 652.
- Precipitation of —. **1933**, 637.
- Qualitative separation of cobalt from — by means of ammonium phosphate. H. Wunshendorff and P. Valier, **1934**, 502.
- Quantitative analysis of mixtures of cobalt and —. S. Glasstone and J. C. Speakman, **1930**, 93.
- Quantitative separation of cobalt and — by means of triethanolamine. E. Raymond, **1935**, 574.
- Rapid determination of —. G. Spacu and J. Dick, **1927**, 660.
- Reagent for —. J. V. Dubský and V. Bencko, **1933**, 638.
- Separation of — from aluminium, chromium and manganese. E. H. Swift, R. C. Barton and H. S. Backus, **1933**, 53.
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- Volumetric determination of —. J. T. Dobbins and J. P. Sanders, **1935**, 54.
- zinc in commercial —; Method for determining small amounts of. B. S. Evans, **1935**, 464.
- Nickel Dimethylglyoxime**: Precipitation of diacetyl as —. **1935**, 653.
- Nickel Salts** as light filters. W. V. Bhagwat, **1934**, 371.
- Separation and determination of cobalt and —. F. G. Germuth, **1930**, 347.
- Nickel Sulphide**: Quantitative precipitation of sulphides in buffered solutions, II. —. M. E. Haring and B. B. Westfall, **1931**, 207.
- Nickel Uranyl Acetate** as qualitative reagent for sodium. P. Feldstein and A. M. Ward, **1931**, 245.
- Nickel-Chromium** alloy. **1931**, 664.
- Nickeldicyandiamidine Salt**: Acidimetric determination of nickel as the —. P. Fluch, **1927**, 48.
- Nickel-Plating** solutions; Analysis of —. S. G. Clarke and W. N. Bradshaw, **1932**, 138.
- Nicotine** content of Dutch cigars. A. Van Druten, **1931**, 260.
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- content of tobacco smoke. C. O. Jensen and D. E. Haley, **1935**, 829.
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- Determination of — by the silicotungstic acids method. N. H. Pizer, **1935**, 48.
- Effect of — upon white mice. C. H. Thienes, **1929**, 359.
- in cigarette smoke; Occurrence of —. III. C. Pyriki, **1933**, 487.
- in insecticides. **1927**, 25; A. Sabatié, **1931**, 121.
- in oriental tobaccos; Determination of —. J. Burmann, **1931**, 53.
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- in raw tobacco; Distribution of —. T. B. Andreadis and E. J. Toole, **1935**, 100.
- in tobacco and nicotine-containing parasitocides. W. Mohr, **1933**, 766.
- in tobacco and tobacco smoke; Determination of —. **1933**, 45; B. Pfyl and O. Schmitt, **1927**, 728.
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- in tobacco; Determination of "free —." Apparent dissociation constants of —. H. B. Vickery and G. W. Pucher, **1929**, 754.
- in tobacco; Fractional extraction of —. **1927**, 23.
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- in tobacco smoke; Appearance of —. II. C. Pyriki, **1932**, 727.
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Nicotine Sulphate: Specification for —. **1934**, 695.

Nicotinic Acid and choline. (Simpler constituents of yeast.) H. B. Vickery, **1926**, 468.

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Nigeria: Tobacco from Palestine, Mauritius and —. **1926**, 482.

Niobium: analytical chemistry of tantalum, — and their mineral associates; Investigations into the. VI, The precipitation of the earth acids by sodium compounds. W. R. Schoeller and C. Jahn, **1926**, 613.

VII, Precipitation of tungsten acid by tannin;
 VIII, Separation of tungsten from tantalum and niobium. W. R. Schoeller and C. Jahn, **1927**, 504.

IX, Separation of titanium from tantalum and niobium. W. R. Schoeller and E. C. Deering, **1927**, 625.

X, Separation of silica from earth acids; XI, Precipitation of titanium by tannin. W. R. Schoeller and A. R. Powell, **1928**, 258.

XII, Observations on the pyrosulphate-hydrolysis method. W. R. Schoeller and E. F. Waterhouse, **1928**, 467.

XIII, New method of separation of zirconium and hafnium from tantalum and —. W. R. Schoeller and E. F. Waterhouse, **1928**, 515.

XIV, A new method for separating small quantities of tantalum and — from titanium. W. R. Schoeller and C. Jahn, **1929**, 320.

XV, New method for separating tantalum and — from titanium and zirconium. W. R. Schoeller, **1929**, 453.

XVI, Observations on tartaric hydrolysis;
 XVII, Quantitative precipitation of the earth acids and certain other oxides from tartrate solution. W. R. Schoeller and H. W. Webb, **1929**, 704.

XVIII, A new method for separating titanium from zirconium and hafnium. A. R. Powell and W. R. Schoeller, **1930**, 605.

XIX, Laboratory notes on analytical technique. W. R. Schoeller, **1931**, 304.

XX, Separation of tin from tantalum and niobium. W. R. Schoeller and H. W. Webb, **1931**, 795.

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XXI, Reliable method for quantitative separation of titanium from tantalum and —. W. R. Schoeller and C. Jahn, **1932**, 72.

XXII, Separation of the earth acids from metals of the hydrogen sulphide group. E. F. Waterhouse and W. R. Schoeller, **1932**, 284.

XXIII, The quantitative separation of tantalum, — titanium and zirconium, and a new analytical grouping. W. R. Schoeller and A. R. Powell, **1932**, 550.

XXIV, An improved method for the separation of tantalum from —. W. R. Schoeller, **1932**, 750.

XXV, Separation of uranium from tantalum, — and titanium. W. R. Schoeller and H. W. Webb, **1933**, 143.

XXVI, Interference of tungsten in earth-acid determinations. W. R. Schoeller and C. Jahn, **1934**, 465.

XXVII, Observations on manganese, and the analysis of tantalite. W. R. Schoeller and H. W. Webb, **1934**, 667.

XXVIII, Separation of rare earths from earth acids. W. R. Schoeller and E. F. Waterhouse, **1935**, 284.

XXIX, Separation of tungsten from titanium, tantalum, zirconium and —. A. R. Powell, W. R. Schoeller and C. Jahn, **1935**, 506.

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- Nitrates**: aliphatic-; Analysis of mixtures of — by means of the refractometer. W. H. Ripkenbach, **1928**, 61.
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- Colorimetric determination of — by means of diphenylaminesulphonic acid. I. M. Kolthoff and G. E. Noponen, **1933**, 368.
- Colour reaction of saponin with —. C. A. Mitchell, **1926**, 181.
- Detection of nitrites, nitrosylsulphuric acid and — by the formation of resorufin, orcirufin and indophenols. H. Eichler, **1934**, 302.
- Effect of — on the formation of fungoid growth in *Liquor Arsenicalis* B.P. 1932. J. Rae, **1933**, 357.
- in animal and vegetable tissues. E. Kohn-Abrest and S. Kawakibi, **1926**, 585.
- in biological fluids; Colorimetric method for quantitative determination of nitrites and —. M. Whelan, **1930**, 337.
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- in drinking water; Determination of —. W. Mulder, **1931**, 766.
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- in milk as evidence of added water. D. R. Wood, **1932**, 375.
- in milk; Diphenylamine and diphenyl-benzidine tests for — as means of detecting added water, and the effect of drenching cows with "nitre." D. R. Wood, E. T. Illing and A. E. Fletcher, **1931**, 248; **1933**, 149; **1934**, 400.
- in milk; Modified procedure for detecting —. J. H. Hamence, **1935**, 532.
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- in milk; Note on the diphenylamine test for — and its reliability in presence of small quantities of chlorine. D. R. Wood, E. T. Illing and A. E. Fletcher, **1934**, 400.
- in milk; Routine detection of —. A. F. Lerrigo, **1930**, 433.
- in soil and waters; Pyrogallol method for determining —. L. U. De Nardo, **1929**, 360.
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- in watered milk. **1931**, 312.
- in whey; Determination of nitrites and —. E. Ohlsson and H. Fredholm, **1930**, 134.
- New and sensitive test for — applicable in presence of nitrites. A. H. Ware, **1927**, 332.
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- Volumetric determination of — with ferric sulphate as reducing agent. I. M. Kolthoff, E. B. Sandell and B. Moskovitz, **1933**, 369.
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- Nitrosylsulphuric Acid**: Detection of nitrates, nitrites and — by the formation of resorufin, orcirufin and indophenols. H. Michler, **1934**, 302.
- Nitrotoluene** in nitrobenzene; Colorimetric determination of —. H. Muraour, **1928**, 174.
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- Non-tannins**: Use of kaolin in the method for determining —. A. Jamet, **1935**, 776.
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- Nostrand's Chemical Annual**. (Review), **1927**, 617.
- Novarsenobenzene**: Toxicity tests for —. Medical Research Council Special Report No. 128. E. H. Durham, J. H. Gaddum and J. E. Marchal, **1929**, 667.
- Novocaine**: Cocaine in presence of — detected by means of cobalt thiocyanate. J. L. Young, **1932**, 179.
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- Nucleoprotein**: Differential staining of — by thionine and similar dyes. E. G. Kelley and E. G. Miller, **1935**, 627.
- Numerical Data**: Annual Tables of Constants and —. Electrical, Magnetic, Electrochemical, Engineering and Metallurgical. (Review), **1927**, 175.
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- Oils**: Absorption spectra of — and oil constituents, with special reference to pro-vitamin D. I. M. Heilbronn, E. D. Kamon and R. A. Morton, **1928**, 168. acid values of fats and —; Isopropyl alcohol as substitute for ethyl alcohol in determining. H. A. Schuette and M. P. Smith, **1927**, 101. Acid values of fats and —. New method for determining the barium values of fats and —. W. L. Davies, **1923**, 172. Acidity of fats and — determined by the quinhydrone electrode in non-aqueous solutions. H. Seltz and L. Silverman, **1930**, 210. Animal —. See **Animal Oils**. Biological significance of the unsaponifiable matter of —. III, Fish-liver oils. H. J. Channon, **1928**, 293. Brazilian "Cedro" wood —. F. W. Freise, **1935**, 191.

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 acids; Volumetric determination of certain — with ceric sulphate. H. H. Willard and P. Young, **1930**, 270.

Organic—continued.

- Analysis; Allen's Commercial —. 5th Ed. Edited by C. A. Mitchell. Vol. IV. (Review), **1926**, 320; Vol. V, **1927**, 615; Vol. VI, **1928**, 356; Vol. VII, **1930**, 73; Vol. VIII, **1931**, 68; Vol. IX, **1932**, 544; Vol. X, **1934**, 207.
- analysis; Improvements in the method of elementary —. A. Wahl and J. P. Sisley, **1928**, 451.
- Analysis; Introduction to Qualitative —. (Review), N. Staudinger, **1926**, 488.
- Analysis; Qualitative —. Elementary Course in the Identification of — Compounds. 2nd Ed. (Review), O. Kamm, **1933**, 184.
- analysis; Tetrachlorophthalimide as reagent in qualitative —. C. F. H. Allen and R. V. V. Nichols, **1934**, 570.
- bases as reagents for separating titanium and beryllium. **1929**, 269.
- carbon in sewage; Determination of —. E. V. Mills, **1932**, 56.
- carbon in soils; Determination of —. G. W. Robinson, W. McLean and R. Williams, **1929**, 360.
- Chemical Analysis, Qualitative and Quantitative; A Student's Manual of —. (Review), J. F. Thorpe and M. A. Whiteley, **1926**, 55; **1927**, 312.
- Chemistry. (Vol. I, of Recent Advances in Analytical Chemistry.) (Review). Ed. by C. A. Mitchell, **1931**, 279.
- Chemistry; A Text-Book of —. (Review), J. Schmidt, **1926**, 485; 2nd Ed., **1932**, 593; A. F. Holleman, **1926**, 650; **1931**, 211.
- Chemistry; An Introduction to Modern —. (Review), L. A. Coles, **1930**, 720.
- Chemistry and Bio-Chemistry. 5th Ed. (Review), R. H. A. Plimmer, **1934**, 68.
- Chemistry; Introduction to the Study of —. (Review), J. Wade, **1926**, 376.
- Chemistry; Perkin and Kipping's —. New Ed. Part I. (Review), F. S. and E. B. Kipping, **1933**, 573.
- Chemistry; Practical Bio-Chemistry and —. (Review), R. H. A. Plimmer, **1927**, 107.
- Chemistry; Recent Advances in —. (Review), A. W. Stewart, **1927**, 734; 6th Ed., Vols. I and II, **1932**, 67.
- Chemistry; Richter's —. Vol. I, Chemistry of the Aliphatic Series. Translated by E. N. Allott. (Review), **1934**, 653.
- Chemistry; Theoretical —. Part I. (Review), F. Arnall and F. W. Hodges, **1927**, 54.
- chemistry; Thionylaniline as a reagent in —. P. Carré and D. Liebermann, **1933**, 491.
- Chemistry; Use of Solvents in Synthetic —. (Review), D. W. McArdle, **1926**, 274.
- Colouring Matters; Artificial —. (Review), H. Fierz-David, **1927**, 372.
- compounds; Accurate general iodimetric method for determining the carbonyl group in —. E. G. R. Ardagh and J. G. William, **1926**, 102.
- compounds and soils; Detection of selenium in —. M. J. Horn, **1934**, 192.

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- compounds; Anhydrous distillation method for determining mercury in —. E. P. Fenimore and E. C. Wagner, **1931**, 684.
- compounds completely oxidisable by sulphuric and chromic acid; Volumetric determination of —. H. Cordebard and V. Michl, **1928**, 171.
- compounds containing halogen and nitrogen; Micro-volumetric determination of sulphur in —. D. T. Gibson and T. H. Caulfield, **1935**, 522.
- compounds containing selenium; Determination of iodine in —. F. M. Hamer, **1933**, 26.
- Compounds; Detection and Determination of —. (Review), H. Meyer, **1933**, 572.
- compounds; Detection and determination of fluorine in —. W. Bockemüller, **1933**, 107.
- compounds; Determination of arsenic in —. H. ter Meulen, **1926**, 421; in medicinal —. E. Kahane, **1934**, 356.
- compounds; Determination of cadmium in —. H. ter Meulen and H. J. Ravenswaay, **1929**, 190.
- compounds; Determination of copper in —. N. N. Melnikow, **1935**, 53.
- compounds; Determination of fluorine and boron in —. D. J. Pflaum and H. H. Wenzke, **1932**, 793.
- compounds; Determination of halogens in —. C. F. Van Duin, **1926**, 421; S. Sabetay and J. Bléger, **1930**, 713.
- compounds; Determination of halogens in — by the sodamide method. F. Govaert, **1933**, 49; by the sodammonium method; Determination of fluorine. F. Govaert, **1933**, 107.
- compounds; Determination of iodine in —. W. Smith, **1929**, 45; J. L. Goldberg, **1934**, 648.
- compounds; Determination of iodine in thyroid gland, thyroxine and other —. G. Middleton, **1930**, 285.
- compounds; Determination of mercury in —. H. ter Meulen, **1926**, 422; in iodinated —. R. B. Sandin and E. T. Margolis, **1935**, 841.
- compounds; Determination of oxygen in —. G. Glockler and L. D. Roberts, **1928**, 299; in liquid —. T. Estreicher, **1932**, 585.
- compounds; Determination of selenium in —. W. E. Bradt and R. E. Lyons, **1926**, 643.
- compounds; Determination of small amounts of mercury in presence of —. R. Robinson, **1929**, 145.
- compounds; Determination of small amounts of sulphur in —. N. Strafford and H. Crossley, **1935**, 163.
- compounds; Determination of the carbonyl and aldehyde content of —; Estimation of phenylhydrazine. S. Marks and R. S. Morrell, **1931**, 508. Erratum, **1931**, 620.
- compounds; Determination of the hydroxyl content of —. Estimation of castor oil. S. Marks and R. S. Morrell, **1931**, 428.

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- compounds; Micro-determination of halogens and metals in —. H. H. Willard and J. J. Thomson, **1930**, 529.
- compounds; Micro-determination of selenium and tellurium in —. H. D. K. Drew and C. H. Porter, **1929**, 683.
- compounds; Micro-volumetric determination of sulphur and chlorine in — with the use of an assay balance. • D. W. Cowie and D. T. Gibson, **1934**, 388.
- compounds; Modified combustion method for determining bromine in —. F. L. Smith, **1927**, 357.
- compounds; New method for detecting the nitro-group in —. P. K. Bose, **1931**, 504.
- compounds; New micro method for determining carbon in —. H. L. Lochte, **1926**, 364.
- Compounds; Preparation and Analysis of —. (Review), J. B. Coleman and F. Arnall, **1926**, 599.
- compounds; Quantitative analysis of tin in —. H. Gilman and W. B. King, **1929**, 365.
- compounds; Quantitative determination of lead in —. H. Gilman and J. Robinson, **1928**, 455.
- compounds; Quantitative estimation of selenium in —. E. H. Shaw, Junr., and E. E. Reid, **1927**, 724.
- compounds; Reactions and reagents for detecting —. E. Eegriwe, I, **1932**, 584; III, **1935**, 189.
- compounds; Sodium in — determined by the ananyl acetate method. D. L. Tabern and E. F. Shelberg, **1931**, 685.
- compounds; Spot tests for some —. I. M. Korenman, **1933**, 371; F. Feigl and Co-Workers, I, **1935**, 56; II, **1935**, 57; III, **1935**, 123; IV, **1935**, 123; V, **1935**, 275; VI, **1935**, 342; VII, **1935**, 720.
- Compounds; Systematic Identification of —. (Review), R. L. Shriner and R. C. Fuson, **1935**, 852.
- compounds; Tests for elements in —. H. Middleton, **1935**, 154.
- compounds; Volumetric determination of alkoxyl groups in —. Modification of the Zeisel procedure. E. P. Eaton and E. S. West, **1937**, 725.
- compounds; Volumetric determination of hydroxyl groups in sugars and other —. V. L. Peterson and E. S. West, **1927**, 607.
- Crystal; Structure of an —. Sir W. H. Bragg, **1929**, 130. •
- hydrazine derivatives; Microchemical detection of —. **1935**, 124.
- liquids; Determination of carbon in dilute —. O. Kauffmann-Cosla, **1927**, 45.
- liquids; Lead chloride for clearing — in toxicological • research for alkaloids. J. Magnin, **1927**, 356.
- material; Alkalimetric micro method for determining chlorine and bromine in —. M. K. Zacherl and H. G. Krainick, **1932**, 591.
- material; Determination of aluminium in —. G. J. Cox, E. W. Schwartze, R. H. Mann, and R. B. Unangst, **1932**, 392.

Organic—continued.

- material; Determination of copper in —. E. Cherbuliez and S. Ansbacher, **1930**, 345.
- material; Determination of selenium in —. H. C. Dudley and H. G. Byers, **1935**, 270.
- material; Determination of tin in —, with special reference to canned foods. G. Lunde and E. Mathiesen, **1934**, 636.
- material; New method for determining iodine in —. **1934**, 838.
- material; New method of determining lead in —, with special reference to dyestuffs. N. L. Allport and G. H. Skrimshire, **1932**, 440.
- material rich in iron; Determination of small amounts of iodine in —. K. Wulfert, **1930**, 415.
- matter; Determination of copper in —. S. Ansbacher, R. E. Remington and F. B. Culp, **1931**, 684.
- matter; Determination of iodine (halogen) in —. J. Schwaibold, **1929**, 185.
- matter; Determination of traces of mercury in presence of —. H. S. Booth, N. E. Schreiber and K. C. Zwick, **1926**, 477.
- matter in sea-water. L. Espil, **1935**, 631.
- matter in sewage-polluted liquids; Determination of stable and unstable —. W. E. Abbott, **1928**, 396.
- matter in soil; Carbon-nitrogen ratio of —. W. McLean, **1930**, 712.
- matter in soils; Determination of — by means of hydrogen peroxide. W. O. Robinson, **1923**, 488.
- matter; Iodimetric determination of chromate in presence of —. F. Feigl, K. Klanfer and L. Weidenfeld, **1930**, 348.
- media; Changes undergone by alkaloids of the tropine group in putrefying —. M. Magnette, **1926**, 419.
- medicaments; Determination of silver in —. G. Antoine, **1935**, 484.
- medicines; Nitrobenzaldehyde as reagent for —. H. W. Van Urk, **1929**, 424.
- Micro-Analysis; Quantitative —. F. Pregl, 2nd Eng. Ed. (Review), **1930**, 776.
- nitration; Use of nitrogen tetroxide in place of nitric acid in —. L. A. Pinck, **1927**, 724.
- nitrogen in sewage effluents; Modification of Kjeldahl method for determining —. J. W. H. Johnson, **1928**, 405.
- nitrogen in waters; Determination of —. **1927**, 132.
- nitrogen; Rapid method for determining —. G. Jaramillo, **1926**, 590.
- Nomenclature; Commission for the Reform of —. **1928**, 656.
- per-acids; Oxidation by means of —. J. Boësen, **1934**, 568.
- peroxides; Determination of —. S. Marks and R. S. Morrell, **1929**, 503.
- Qualitative Analysis; Introduction to —. 2nd Ed. (Review), H. Staudinger, **1931**, 216.
- Reactions; Mechanism of Homogeneous — from a Physical Chemical Standpoint. (Review), F. O. Rice, **1928**, 406.

Organic—continued.

- reagent; Thionylaniline as an —, and its use for identifying acids as anilides. P. Carré and D. Libermann, **1932**, 537.
- Reagents for Metals. (Review), Hopkin & Williams' Research Staff, **1933**, 310.
- reagents in qualitative analysis. II, L. Lehman, H. Weisberg and E. A. Kabat, **1934**, 844.
- reagents; Tests using —. Effect on the sensitiveness of increasing the size of the molecule. J. V. Tamchyna, **1934**, 127.
- solvents; Quantitative determination of acetone in mixtures of — by means of hydroxylamine hydrochloride. M. Krajčinović, **1932**, 123.
- solvents; Solubilities of oils and waxes in —. J. W. Poole, **1930**, 212.
- substances; Action of certain — on alcoholic fermentation. E. Mameli, **1927**, 99.
- substances; Application of sodium diethyl-dithiocarbamate reaction to the micro-colorimetric determination of copper in —. W. D. McFarlane, **1932**, 802.
- substances; Determination of water in — by means of calcium carbide. A. Cantzler and S. Rothschild, **1927**, 606.
- substances; Micro-analytical method for the identification of —. V. Staněk and T. Nemes, **1932**, 471.
- substances; Micro-determination of fluorine in —. D. M. Hubbard and A. L. Henne, **1934**, 777.
- substances; Micro-determination of iodine in —. T. Leipert, **1930**, 413.
- substances; Rapid determination of carbon, nitrogen and hydrogen in —. R. Vandoni and M. Algrain, **1928**, 298.
- sulphur compounds; New colour reaction for soluble —. I. W. Grote, **1931**, 760.
- Syntheses. (Review), Vol. I, H. Gilman, **1932**, 675; Vol. IV, O. Kamm, **1926**, 55; Vol. V, C. S. Marvel, **1926**, 380; Vol. VI, H. Gilman, **1926**, 653; Vol. VII, F. C. Whitmore, **1928**, 514; Vols. VIII and IX, R. Adams and J. B. Conant, **1929**, 443; Vol. X, H. T. Clarke, **1930**, 721; Vol. XI, C. S. Marvel, **1932**, 675; Vol. XII, F. C. Whitmore, **1933**, 250; Vol. XIII, W. H. Carothers, **1933**, 788; Vol. XIV, W. W. Hartman, **1934**, 723; Vol. XV, W. H. Carothers, **1935**, 787.
- Tannins; The Natural —. M. Nierenstein. (Review), **1934**, 856.
- Organische** Chemische Laboratoriumstechnik; Einführung in die —. (Review), K. Bernhauer, **1935**, 788.
- Mikroanalyse; Quantitative —. 3rd Ed. (Review), F. Pregl, **1930**, 304.
- Organischen** Chemie; Lehrbuch der —. 4th Ed. (Review), J. Schmidt, **1930**, 300.
- Chemie; Quantitative Analytische Mikromethoden der — in vergleichender Darstellung. (Review), C. Weygand, **1932**, 415.
- Mikro-Analyse; Praxis der Quantitativen —. A. Friedrich, (Review), **1933**, 725.
- Qualitativen Analyse; Anleitung zur —. H. Staudinger, **1929**, 502.

Organischen—continued.

- Strukturlehre; Entwicklung und Leistungen der —. (Review), R. Pummerer, **1933**, 376.
- Verbindungen; Nachweis und Bestimmung —. (Review), H. Meyer, **1933**, 572.
- Organism**; circulation of gold in the animal —; Electrolytic method for investigating the —. S. Lomholt, **1926**, 97.
- copper in the —; Some physiological aspects of. F. B. Flinn and J. M. Inouye, **1929**, 758.
- Organisms** in water; Determination of the number of —. W. Plücker and W. Bartels, **1929**, 56.
- Organo-Metallic** compounds; Influence of acid chlorides and of pyrrole on the colour test for reactive —. H. Gilman and L. L. Heck, **1931**, 199.
- compounds; Qualitative colour test for reactive —. H. Gilman and L. L. Heck, **1929**, 186.
- Organo-Metalloidal** compounds; Formation of — by micro-organisms. I, Trimethylarsine and dimethylethylarsine. F. Challenger, C. Higginbottom and L. Ellis, **1933**, 235.
- Organs**; Distribution of bismuth in — after injection of aqueous solutions. R. Fabre and M. Picon, **1929**, 252.
- silver in blood and —; Micro-determination of. L. Pincussen and W. Roman, **1930**, 350.
- Orotic Acid**; Constitution of —. M. Bachstsz, **1930**, 453.
- Ortho-Cresols** in mixtures of cresols; Determination of —. C. E. Sage and H. R. Fleck, **1932**, 567.
- Orthoform**; New colour reaction for —. **1927**, 41.
- Orthophenylphenol** as an antiseptic. H. C. Fuller, **1934**, 766.
- Orthophosphate** in presence of pyro- and metaphosphate; Colorimetric determination of —. K. Boratynski, **1935**, 842.
- silicon and aluminium in presence of fluoride and —; Determination of. T. Millner and F. Kunos, **1933**, 54.
- Simultaneous determination of pyrophosphate and —. R. Dworzak and W. Reich-Rohrwig, **1929**, 435; W. Stollenwerk and A. Bäurle, **1929**, 435.
- Orthophosphates**; Direct titration of soluble — with lead acetate in the presence of dibromofluorescein as adsorption indicator. A. W. Wellings, **1935**, 316.
- Orthophosphoric Acid**; Colorimetric determination of —. A. Dunajew, **1930**, 464.
- Volumetric determination and separation of pyro-, meta- and —. S. Aoyana, **1931**, 480.
- Ortol Test** for unboiled milk. **1935**, 817.
- Osmium**; Atomic weight of —. **1928**, 160, 289; **1929**, 296; **1934**, 414, 547.
- Quantitative determination of — by means of strychnine sulphate. S. C. Ogburn, Junr. and L. F. Miller, **1930**, 222.
- Reagents for —. **1935**, 482.
- Separation and determination of —. R. Gilchrist, **1931**, 616.

- Osmium Tetroxide** as catalyst for the oxidation of arsenious acid. K. Gleu, **1934**, 130.
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- Osmotic** concentration; Difference in — between yolk and white of egg. J. Straub, **1929**, 296.
- Ostreasterol**: Chemistry of —. W. Bergmann, **1934**, 426.
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- Ostwald** viscometer for tar. A. R. Lee, **1934**, 578.
- Otto of Rose**: Freezing point of —. **1929**, 337.
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- Ovoflavine**: **1934**, 72.
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- Ox** liver; Unsaponifiable lipids of —. I, Methods of separation. F. C. Freytag and H. G. Smith, **1933**, 293; II, Vitamins *A* and *E*: Anti-oxygens, **1933**, 294.
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- Oxalate** method for separating calcium and magnesium. W. T. Hall, **1929**, 65.
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- Oxalate-Salicylate** method for small quantities of earth acids. **1929**, 322.
- Oxalates** in plants; Presence of — from the point of view of oxaluria. A. Goudswaard, **1934**, 290.
in stomach contents; Detection and determination of oxalic acid and —. G. D. Elsdon and J. R. Stubbs, **1930**, 321.
- Oxalatomanganate**: Detection of oxalic acid as —. G. Lochmann, **1933**, 299.
- Oxalic Acid**: Colorimetric method for determining —. C. A. Mitchell, **1933**, 279.
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Detection of — as oxalatomanganate. G. Lochmann, **1933**, 299.
in stomach contents; Detection and determination of oxalates and —. G. D. Elsdon and J. R. Stubbs, **1930**, 321.
in urine; Determination of small quantities of —. E. C. Dodds and E. J. Gallimore, **1932**, 788.
Preparation of anhydrous —. V. Cerchez and C. Panaitescu, **1933**, 419.
Separation of tin from — by means of sodium hydrosulphite. B. S. Evans, **1932**, 362.
Test for —. E. R. Caley, **1932**, 795.
- Oxaluria**: Presence of oxalates in plants from the point of view of —. A. Goudswaard, **1934**, 290.
- Oxford**: Official appointment of E. Voelcker as Additional Public Analyst for the County of —. **1929**, 536; as Deputy Agricultural Analyst for County of —. **1930**, 566; for County Borough of —. **1932**, 629.
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- Oxidase** activity. Iodimetric method for determining —. J. D. Guthrie, **1930**, 709.
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- Oxidase**—*continued*.
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- Oxidases**: New method for determining the activity of certain —, with preliminary study of the potato oxidase. A. E. Stearn and A. A. Day, **1930**, 147.
- Oxidation**: Air — of titanous sulphate solution. Vanadous sulphate, a new and powerful reducing agent. A. S. Russell, **1926**, 267.
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by means of organic per-acids. J. Boëseken, **1934**, 568.
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of certain poly-alcohols by periodic acid. Applications. L. Malaprade, **1928**, 299.
of chaulmoogric acid by permanganate. G. A. Perkins, **1926**, 465.
of double linkings in oils and fats by per-acetic acid. W. C. Smit, **1930**, 526.
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- Oxidation-Reduction** balance; Colorimetric determination of —. British Drug Houses, Ltd. **1934**, 144.
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- Oxidations**: biological —; Indophenol reaction in. D. C. Harrison, **1930**, 146.
- Oxides** in steel; Iodine method of determining —. T. E. Rooney and A. G. Stapleton, **1935**, 637.
- Oxides of Nitrogen**: Action of — on oleic acids. **1933**, 416.
(except nitrous oxide); Determination of — in low concentration. J. Picard, E. G. Peterson and C. D. Biting, **1930**, 647.
- Oxidising** acids; Potentiometric titration of some —. M. L. Malaprade, **1926**, 271.
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Oxydimorphine: Determination of ——. B. Drevon, **1935**, 707.

Oxygen absorbed in sewages and effluents; Method for the combined determination of albuminoid ammonia and ——. J. W. H. Johnson, **1926**, 345.

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Comparison of the reaction-capacity towards —— of different absorbing materials used in technical gas analysis. **1932**, 589.

consuming phenomena in beverages. J. H. Toulouse, **1934**, 703.

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Hempel gas analysis apparatus without absorption bulbs and its use in the examination of commercial ——. R. C. Frederick, **1927**, 400.

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in liquid organic compounds; Detection of ——. T. Estreicher, **1932**, 585.

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in honey; Quantitative determination of ——. J. Fiehe, **1929**, 108.

Oxy-Proline: Sublimation temperature of ——. **1933**, 117.

Oxyquinoline: Acidimetric^o determination of magnesium, zinc, aluminium and copper in presence of ——. F. L. Hahn and E. Hartleb, **1927**, 495.

as means of determining bismuth. R. Berg, **1928**, 58.

as means of determining cadmium and aluminium. R. Berg, **1927**, 611.

as means of determining magnesium. R. Berg, **1927**, 431.

as means of determining zinc. R. Berg, **1927**, 494.

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o-**Oxyquinoline** as means of separating and determining metals. R. Berg, **1927**, 302.

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Precipitation of lead by ——. V. Marsson and L. W. Haase, **1929**, 122.

Oxytocic activity of commercial samples of pituitary extract; Comparison of the pressor, anti-diuretic and ——. U. G. Bijlsma, J. H. Burn and J. H. Gaddum, **1929**, 298.

Oyster: Bacterial flora of the market ——. C. Eliot, **1927**, 98.

Fatty substances of the ——. M. Tsujimoto and H. Kayanagi, **1934**, 762.

Oysters: Arsenic in ——. **1926**, 551.

Significance in —— of aerobic non-sporulating bacteria producing gas from lactose. C. A. Perry, **1930**, 58.

Vitamins in ——. D. B. Jones, J. C. Murphy and E. M. Nelson, **1928**, 295.

Ozone: Determination of ——. A. Maché, **1935**, 496.

Determination of small amounts of hydrogen peroxide and of ——. N. Allen, **1930**, 220.

Effect of —— on growth of bacteria. **1934**, 697.

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- in air; Determination of —. E. Briner and H. Paillard, **1935**, 274.
 in air; New method for quantitative determination of —. M. S. Egorow, **1929**, 189.
 in the atmosphere. J. Levine, **1928**, 57.
 optical determination of atmospheric —; New method for. A. I. Duniowski, **1931**, 136.
 Production of — by ultra-violet rays. J. Badlez, **1927**, 551.
 Use of — for determining the constitution of unsaturated compounds. J. Dœuvre, **1929**, 361.
Ozoniser: A laboratory —. A. L. Henne, **1929**, 685.

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Packing for rindless cheese; Tin-foil as —. —. Elten, **1929**, 552.

Paddington: Appointment of A. W. Stewart as Public Analyst for Metropolitan Borough of —. **1932**, 519.

Paddy: Study of Ceylon —. **1930**, 128.

Paint: Lead in —. **1933**, 98.

Nitrocellulose detected in coats of —. P. Slansky, **1932**, 193.

Production of carbon monoxide from — in sealed compartments. S. F. Dudley, F. G. Edmed and R. C. Frederick, **1933**, 298.

Paintings: analysis of pigments of —; Application of microchemical methods to. H. Hetterich, **1931**, 136.

Identification of pigments used in —. A. P. Laurie, **1930**, 162.

Micro-extraction apparatus for examination of —. H. Hetterich, **1932**, 542.

X-ray examination of —. **1934**, 663.

Paints: Analysis of —, Pigments and Varnishes (Review), J. J. Fox and T. H. Bowles, **1927**, 110.

Aniline dyes in —. **1929**, 748.

chromium oxide (CrO) in lead —; Determination of. E. J. Davis, **1929**, 621.

covering power of —; Photometric method of measuring the. H. D. Bruce, **1926**, 371.

for gates and railings; Lead in —. **1935**, 41.
 Infra-red rays in examination of pigments of —. **1935**, 458.

Paintwork: "chalking" of —; Determination of degree of. R. Kempf, **1930**, 295.

Palestine: Hot springs of —. **1932**, 40.

Report of the Dept. of Health for the year 1924. G. W. Baker, **1926**, 300; for 1925, **1927**, 230; for 1926, **1928**, 94; for 1927, **1928**, 598; for 1928, **1930**, 48; for 1929, **1931**, 33; for 1930, **1932**, 38; for 1931, **1933**, 158; for 1932, **1933**, 546; for 1933, **1934**, 752.

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Palladium: Adsorption of — in platinum ore analysis. **1926**, 394.

Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.

Benzoylmethylglyoxime as a precipitant for —. J. Hanus, A. Jilek and J. Lukas, **1926**, 109.

Palladium—continued.

Detection of — with dimethylamino-benzylidenerhodanine. F. Feigl, P. Krumholz and E. Rajmann, **1931**, 485.

Determination of — by 6-nitroquinoline. S. C. Ogburn and A. H. Riesmeyer, **1929**, 63.

Iridium separated from —. **1932**, 195.

Precipitation of — by nitro- β -naphthol. C. Mayr, **1934**, 846.

Quantitative determination of — by means of ethylene. S. C. Ogburn, Junr., and W. C. Brastow, **1933**, 366.

Reagents for —. **1935**, 782.

Palm Butter: azelaic acid value of —; Determination of. G. Schuster, **1934**, 350.

Palm Kernel Oil: Detection of — by means of a test for lauric acid. J. Grossfeld and A. Miermeister, **1929**, 242.

Examination of mixtures of coconut oil and —. G. D. Elsdon and P. Smith, **1927**, 63.

Glycerides of —. **1928**, 603.

in butter fat; Detection of —. **1927**, 69.
 in margarine; Determination of butter-fat and —. G. D. Elsdon and P. Smith, **1926**, 72.

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Lauric acid content of coconut oil and — as a means of detecting these fats in nutrient fat mixtures. J. Grossfeld, **1928**, 603.

Reichert and Polenske values of —. **1927**, 64.

Values for —. **1927**, 319.

Palm Oil: Carotene in —. K. Kobayashi, K. Yamamoto and J. Abe, **1934**, 639.

carotene in —; Reaction of Japanese acid clay upon. K. Kobayashi, K. Yamamoto and J. Abe, **1932**, 264; **1934**, 639.

Composition of commercial —. I, The fatty acids and component glycerides of some — of low free acidity. T. P. Hilditch and E. E. Jones, **1930**, 701; II, The fatty acids and component glycerides of some — of high free acidity. T. P. Hilditch and E. E. Jones, **1931**, 463; III, H. K. Dean and T. P. Hilditch, **1933**, 484; IV, Progressive hydrogenation as an aid in the study of glyceride structure. A. Banks, H. K. Dean and T. P. Hilditch, **1935**, 328.

Distillation of —. J. L. N. Van der Hulst, **1934**, 509.

fatty acids of —; Composition of the. A. Rayner and S. G. Campbell, **1928**, 386.
 from the Belgian Congo. G. S. Jamieson and R. S. McKinney, **1929**, 477.

Vitamin D content of red —. W. J. Dann, **1932**, 398.

Palmae kernel fats. G. Collin, **1934**, 287.

Palmitic Acid: Purification of —. A. L. Wilkie, **1928**, 109.

Palmitodistearin: Identification of α - — in presence of β - —. F. J. F. Muschter and G. Visser, **1926**, 353.

Palmnut Oil: Barium value of —. **1928**, 173.

Pampas Grass as fodder. **1934**, 826.

Pamphlets: Enquiry into the Nature of Certain Nineteenth Century —. (Review), J. Carter and G. Pollard, **1934**, 655.

- Pancreas**: Insulin content of the — in cattle of various ages. A. M. Fisher and D. A. Scott, **1934**, 765.
- Nickel and cobalt in the —. G. Bertrand and M. Macheboeuf, **1927**, 95.
- Pancreatic lipase**; Factors influencing the action of —. B. S. Platt and E. R. Dawson, **1926**, 96.
- Pancreatin**: Hydrolysis of corn (maize) starch by means of commercial —. J. H. Walton and H. R. Dittmar, **1927**, 42.
- Pantocaine**: Microchemical identification of —. F. Amelink, **1933**, 245.
- Microchemical test for —. **1934**, 137.
- “**Pantosept**” (sodium salt of dichloroparasulphamino-benzoic acid): Relative effectiveness of — as disinfectant. **1926**, 259.
- Papain**: Action of — on the polarisation of gelatin. Measurement of proteolytic activity. H. C. Gore, **1929**, 762.
- Assay of —. A. K. Balls, T. L. Swenson and L. S. Stuart, **1935**, 420.
- Papaverine**: Bromine as a reagent in determining —. **1931**, 727.
- Papaverine Hydrochloride**: morphine in —; Detection by means of iodic acid. J. Rozeboom, **1935**, 482.
- Paper**: Composition of — as evidence, **1932**, 152.
- copper number of —; Modified method for determining the. B. W. Scribner and W. R. Brode, **1928**, 55.
- gelatin in —; Action of ultra-violet light on. H. A. Bromley, **1933**, 29.
- Making; Chemistry of Pulp and —. 2nd Ed. (Review), E. Sutermeister, **1929**, 626.
- making qualities of *Pinus radiata*; Chemical investigation of —. I, Distribution and nature of the non-volatile ether extractives. **1935**, 618.
- Mechanical wood pulp in —. C. J. J. Fox, **1932**, 455.
- mechanical wood pulp in —; Phloroglucinol method of determining. H. B. Dunningcliff and H. D. Suri, **1932**, 354.
- mechanical wood pulp, unbleached chemical pulp, and bleached chemical pulp fibres in —; A method for the quantitative determination of. B. K. Mukhopadhyay and K. K. Tampy, **1935**, 529.
- Mill Chemist. (Review), H. P. Stevens, **1927**, 373.
- Oiled apple-wrapping —. **1933**, 225.
- Quality of —. Report of the Library Association Special Committee. **1931**, 602.
- water-resistance of —; Ultra-violet light as a sensitive method of measuring the degree of. J. Grant, **1935**, 60.
- Papers**: Arsenic in coated —. H. J. Stern, **1928**, 83.
- reagent-; Sensitiveness of some — towards gaseous hydrogen phosphide. M. Wilmet, **1927**, 487.
- Paprika** adulterated with flour; Determination of starch in —. D. Kőszegi and N. Tomori, **1934**, 494.
- Connecticut standard for —. **1928**, 162.
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- meal products; Composition of Szegeder Edelsüss —. I. Horváth, **1935**, 829.
- products; Determination of capsanthin in ground —. L. Benedek, **1934**, 188.
- Paprika Oil**: Iodine value of —. L. C. Mitchell, **1927**, 161.
- Iodine value of Spanish —. L. C. Mitchell and S. Alfend, **1929**, 44.
- Papyrus**: The Stockholm —. E. R. Caley, **1927**, 615.
- Para Rubber Seed Oil**: G. S. Jamieson and W. F. Baughman, **1931**, 61; Y. Iwamoto, **1931**, 62.
- Crystalline bromides of —. **1926**, 390.
- Pyrolysis of —. R. Delaby and R. Charonnat, **1931**, 61.
- Parachor** and Valency. (Review), S. Sugden, **1930**, 226.
- Paraffin**: Growth of *Aspergillus versicolor* on —. S. J. Hopkins and A. C. Chibnall, **1932**, 398.
- hydrocarbons in motor fuels; Determination of unsaturated, aromatic, naphthene and —. G. Egloff and J. C. Morell, **1926**, 316.
- liquid —; Note on sulphuric acid test for —. C. H. Hampshire and G. R. Page, **1934**, 635.
- liquid —; Viscosity of. **1934**, 30.
- separation of — from other oils; Ethylene glycol monoacetate as a selective solvent for. K. B. Edwards and R. Lacey, **1935**, 717.
- Paraffin Oil** in turpentine. **1932**, 248.
- Works; Report on —. **1933**, 537.
- Paraffin Wax**: L. D. Wyant and L. G. Marsh, **1926**, 105.
- crude oil; New method of determining — by means of a mixture of ether, alcohol, butanone and phenol. R. Fuststeig, **1933**, 239.
- in crude wax; Determination of —. L. M. Henderson and S. W. Ferris, **1927**, 301.
- in dripping. (Legal Notes), **1929**, 33.
- Solubility of — in petroleum oils. F. W. Sullivan, W. J. McGill and A. French, **1927**, 727.
- Solubility of — in pure hydrocarbons. P. Weber and H. L. Dunlap, **1928**, 397.
- Paralysis**: Ginger —. **1931**, 474.
- Paraphenylene-Diamine** in leather; Detection of —. **1934**, 519.
- Parasitocides**: Determination of nicotine in nicotine-containing —. W. Mohr, **1933**, 766.
- Parasitism**: Vitamin D and resistance of chickens to —. J. E. Eckert and L. A. Spindler, **1929**, 356.
- Parathyroid** glands containing an anti-growth factor; Extracts of —. I. C. J. Eastland, N. Evers and J. H. Thompson, **1933**, 234.
- Paratyphoid** fever; Milk as cause of —. **1931**, 743.
- group of micro-organisms; Hemolytic properties of —. C. P. Elliot and W. W. Ford, **1931**, 58.

- Parchment** documents; Deciphering damaged. —. 1933, 406.
vegetable — used for packing dairy products; Analysis and composition of. P. Arup, 1931, 149.
- Parfums**: Plantes à — des Colonies Françaises. (Review), M. E. Maunier, 1929, 129.
- Parinarium Ldurinum**: New unsaturated acid in the kernel oil of —. M. Tsujimoto and H. Koyanagi, 1933, 351.
- Parinarium Macrophyllum**: Fatty oil of —. A. Steger and J. Van Loon, 1934, 288.
- Paris** streets; Composition of the air in —. R. Cambier and F. Marcy, 1928, 349.
- Parliamentary Notes**: Action by private individuals under the Artificial Cream Act. 1930, 43.
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- Parrish's Chemical Food**: Formula for —. (Legal Notes), 1933, 611.
- Parsley**: Volatile oil determined in —. 1934, 617.
- Parsley Seed Oil**: Acids in —. T. P. Hilditch and E. E. Jones, 1927, 429.
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Thiocyanogen value of —. A. Steger and J. Van Loon, 1929, 177.
- Particles**: Method of measuring size of —. P. Lukirsky and M. Kosman, 1927, 173.
- Pastes**: Alimentary —. U.S.A. Food Inspection Decision No. 206. 1927, 546.
unsaponifiable matter in alimentary —, wheat flour and eggs; Determination of. R. Hertwig and L. H. Bailey, 1926, 306.
- Pasteurisation**: Detection of —, and detection of raw milk in pasteurised milk. M. F. Bengen, 1933, 699. ●
Effect of — on the infectivity of the milk of tuberculous cows. R. G. White, 1926, 156.
Is the amylase test alone sufficient to indicate permanent —? M. F. Bengen and E. Bohm, 1935, 325.
New method for detecting —. S. Rothenfusser, 1930, 758.
Standards for milk —. C. E. North and W. H. Park, 1927, 294.
- Pasteurised** food; New bacteriological test for — (The heat-resistance curve). C. Dukes, 1934, 14.
milk. See Milk, pasteurised.
- Pasteurising** plants for milk. Ministry of Health Circular 1473. 1935, 763.
plants for milk; Supervision of —. Ministry of Health Public Health Report No. 77. Sir W. Dalrymple-Champneys, 1935, 408.
- Pastry**: egg-content of —; Determination of. B. Alberti, 1933, 480.
starch in —; Polarimetric determination of. J. Grossfeld, 1927, 420.
vegetable lecithin in —; Detection of. O. Mezger, H. Jesser and M. Volkmann, 1933, 555.
- Pasture** problems in South Africa. 1935, 101.
- Paternity**: Blood grouping in a case of disputed —. (Legal Notes), 1932, 247.
cases; Blood tests in —. 1928, 17, 38.
- Pathogenic** bacteria and mixed enzymes of milk. C. Gorini, 1927, 486.
- Pathology**: Handbook of Clinical Chemical —. (Review), F. S. Fowweather, 1929, 775.
of some industrial poisons. A. J. Amor, 1931, 559.
- Pea** flour and soya bean flour. D. Kaltschewa, 1933, 162.
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- Peach Kernel Oil**: Reactions of —. J. Pritzker and R. Jungkunz, 1928, 102.
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- Peaches**: Boron compounds in dried —. 1929, 16.
Vitamins in canned —. E. F. Kohmann, W. H. Eddy, V. Carlsson and N. Halliday, 1926, 260.
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- Peanut Butter**: Analytical constants of —. H. L. Wikoff, M. Busey and A. M. Kepla, 1934, 355.
- Pear**: Conductivity and acidity of the —. 1933, 551.
Constituents of the wax-like coating of the —, *Pyrus communis*. L. K. S. Markley, S. B. Hendricks and C. E. Sando, 1935, 767.
Non-volatile acids of the —. E. K. Nelson, 1927, 418.
scald and breakdown; Presence of acetaldehyde in Bartlett pears and its relation to —. C. P. Harley and D. F. Fisher, 1928, 227.
- Pearl Barley**: Coating of —. 1929, 468; 1933, 342.
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infected with smut. P. H. Jones, 1933, 754.
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- Pearls**: Detection of artificial —. P. Szilard, 1926, 53.
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- Pears**: acetaldehyde content and core breakdown in Bartlett —; Relation of picking time to. C. P. Harley, 1930, 151.
Acetaldehyde in Bartlett — and its relation to pear scald and breakdown. C. P. Harley and D. F. Fischer, 1928, 227.
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- Boron compounds in dried —. 1929, 16.
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- Peas:** Agricultural Produce (Grading and Marking) (—) Regulations. 1931, 108.
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 Indophenol-reducing capacity and vitamin C content of extracts of young germinated —.
 S. W. Johnson, 1934, 359.
 Investigation of —. R. Nesen, 1934, 417.
 Methylene blue in tinned —. 1931, 742;
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 preserved; Composition of — in relation to their diameter. E. Lasausse, 1926, 199.
 "Regenerated" preserved — and preserved green —; Differentiation of. C. F. Muttelet, 1926, 150.
 "Regenerated" preserved —; Specific characteristics of. J. Froidevaux, 1927, 91.
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 Roasted pigeon — as adulterant of coffee. 1933, 696.
 tetanus bacillus in canned —; Occurrence of. F. Marsh and J. Henderson, 1929, 536.
 Vitamins in canned foods. IV, Green —.
 W. H. Eddy, E. F. Kohman and V. Carlsson, 1926, 207.
- Peat** and peat wax from Chatham Islands. 1927, 727.
- Peats:** pharmacology of springs and —; Observations on. Prof. Zörkendörfer, 1926, 482.
- Pecan Oil:** G. S. Jamieson and S. I. Gertler, 1929, 750.
- Pectic Acid:** Decomposition of — by mould fungi and formation of pectolytic enzymes. S. A. Waksman and M. C. Allen, 1933, 633.
- Pectic Acids:** E. K. Nelson, 1926, 582.
- Pectic Substances** in nature; Determination of the individual —. D. R. Nanji and A. G. Norman, 1928, 397.
 Micro method for determining uronic anhydride groups in —. H. W. Buston, 1932, 220.
 of plants; Critical and historical study of —. Food Investigation Report No. 33. 1929, 594.
- Pectin:** An arabinogalacturonic acid derived from orange —. J. R. Bowman and R. B. McKinnis, 1930, 336.
 calcium pectate method of determining —; Modification of. A. M. Emmett and M. H. Carré, 1926, 307.
 Decarboxylation of —. F. V. Lingood, 1930, 462.
 Decomposition of — by mould fungi and formation of pectolytic enzymes. S. A. Waksman and M. C. Allen, 1933, 633.
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 from citrus fruits; Simple method for purifying —. H. R. Nanji and J. J. Chinoy, 1934, 554.
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- galactonuric acid in —; Determination of. W. H. Dore, 1926, 151.
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- in hops. H. Fink and J. Hartmann, 1935, 766.
 Microbiology of Cellulose, Hemicellulose, — and Gums. (Review), A. C. Thaysen and H. J. Bunker, 1927, 500.
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- Pectins:** Comparison of commercial —. C. J. van der Bie, 1935, 765.
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 in lemon residues; Determination of —. B. Melis, 1930, 199v.
- Pectolytic enzymes;** Decomposition of pectin and pectic acid by mould fungi and formation of —. S. A. Waksman and M. C. Allen, 1933, 633.
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- Peel:** Excess of sulphur dioxide in candied —. (Legal Notes), 1931, 181.
- Pellagra:** Supposed connection between human — and deficiency of vitamin B₂. W. R. Aykroyd, 1931, 56.
- Pelletierine:** Comparison of arecoline with —. C. D. Howard, 1932, 391.
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- Pemberton** method for volumetric determination of phosphoric anhydride; Application of Ridsdale's modification of — to fertilisers. A. M. Cameron and W. T. Dow, 1927, 576.
- Pencil Markings;** Atlas of —. S. Türkel. (Review), 1930, 603.
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- Pencils:** Infra-red rays in examination of pigments of —. 1935, 459.
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- Penicillium:** Action of — on artificial silks. T. F. Heyes and H. S. Holden, 1932, 471.
- Penicillium Glaucum** cultures; Enzyme yields in —. 1931, 194.
- Pennsylvania** potatoes; Iodine content of —. D. E. H. Frear, 1934, 418.
- Pennyroyal Oil** as anti-ferment. 1928, 612.
- Pentabromoacetone:** Determination of citric acid as — and its application to wine. O. Reichard, 1934, 759.
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- Pentadesma Butyracea:** Composition of seed fat of —. T. P. Hilditch and S. A. Saletore, 1932, 113.

- Pentamethylene-Tetrazol**: Analytical chemistry, of —. J. J. L. Zwickler, **1934**, 833.
- Pentosans**: Micro method for determining pentoses and —. G. E. Youngburg, **1927**, 484.
- Pentose** and uronic acid content of orange albedo and an arabinogalacturonic acid derived from orange pectin. J. R. Bowman and R. B. McKinnis, **1930**, 336.
- in yeast nucleic acid and its derivatives; Micro-determination of —. W. S. Hoffman, **1927**, 421.
- metabolism; Studies on —. II, Micro method for determining pentoses and pentosans. G. E. Youngburg, **1927**, 484.
- Pentoses**: Micro method for determining —. G. E. Youngburg, **1927**, 484.
- Penzoldt** test for qualitative detection of acetone. **1929**, 5.
- Pepper**: added pepper shells in —; Detection of. E. R. Smith, S. Alfend and L. C. Mitchell, **1926**, 584.
- Adulterated —. (Legal Notes), **1929**, 541. and — mixtures. **1929**, 662.
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- Boron compounds in black —. **1929**, 18. compound. (Legal Notes), **1929**, 663.
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- pimento —; Vitamin A content of. L. Ascham, **1934**, 122.
- Volatile alkaloid of —. A. Pictet and R. Pictet, **1927**, 649.
- White —. **1928**, 153.
- White — coloured with turmeric. **1930**, 631.
- Peppermint** essence. (Legal Notes), **1927**, 282.
- Peppermint Oil** as anti-ferment. **1928**, 612.
- Carvone in —; Percentage of. **1932**, 380, 381.
- Japanese mint oil detected in —. D. C. Garratt, **1935**, 369.
- menthone content of —; Evaluation of. J. Reilly, N. Noonan and P. J. Drumm, **1931**, 702.
- menthone in —; Percentage of. **1932**, 379.
- Pepsin** and rennin activities of the gastric secretion of different animals; Comparison of —. H. Holter and B. Andersen, **1935**, 110.
- Artificial digestion with — as means for evaluating the quality of meat. J. A. Smorodinzew, **1934**, 422.
- clotting of milk by —; Effect of fluorides and iodides on the. W. M. Clifford, **1928**, 663.
- Nephelometric determination of —. C. G. Van Arkel, **1929**, 762.
- Peptic** activity; Determination of —. Examination and application of the Gates method of proteolytic enzyme titration. A. Gilman and G. R. Cowgill, **1930**, 765.
- Peptic**—continued.
- digestion; Effect of halogen salts on —. W. M. Clifford, **1927**, 550.
- digestion; Influence of — in the determination of total carbohydrates in cereal products. B. G. Hartmann and F. Hillig, **1927**, 160.
- Per-Acetic Acid**: Quantitative oxidation of double linkings in oils and fats by —. W. C. Smit, **1930**, 526.
- Per-Acids**: Oxidation of linolic acids by —. W. C. Smit, **1930**, 525.
- Percaïne**: Colour reaction of —. **1931**, 467.
- Perchlorate**: chlorate in —; Detection of. T. P. Raikowa-Kowatschewa, **1931**, 208.
- Determination of —. H. H. Willard and J. J. Thompson, **1930**, 653.
- in Chili saltpetre; Determination of — by means of nitron. A. Vürtheim, **1927**, 251.
- Perchlorates**: anhydrous — as dehydrating agents for gases; Use of. G. F. Smith, **1927**, 307.
- Detection of small quantities of —. D. Krüger and E. Tschirch, **1931**, 691.
- Determination of chlorates and —. K. Scharrer, **1926**, 370.
- Perchloric Acid** as a means of determining silica. F. W. Meier and O. Fleischmann, **1932**, 477.
- as oxidising agent in the determination of chromium in presence of iron, aluminium and phosphoric acid. J. Haslam and W. Murray, **1934**, 609.
- Determination of —. O. Loebich, **1926**, 371.
- Determination of silica in vegetable substances by mixed nitric and —. L. Lematte, G. Boinot, E. Kahane and M. Kahane, **1931**, 686.
- method of determining potassium. **1926**, 451.
- method of determining sulphur in coal. G. L. Smith and A. G. Deem, **1932**, 408.
- method of determining sulphur in rubber. E. Wolesensky, **1929**, 61.
- Percolation**: Apparatus for continuous — and for filtration in neutral atmospheres. B. S. Evans, **1926**, 229.
- Perdisulphuric Acid**: hydrogen peroxide and Caro's acid in presence of —; Volumetric determination of. A. J. Berry, **1933**, 464.
- Perfumery**: Parry's Cyclopaedia of —. (Review), E. J. Parry, **1926**, 117.
- Perfumes**: Cosmetics, Soaps and —, with especial reference to Synthetics. Vol. I. (Review), W. A. Poucher, **1926**, 275; Vol. II, **1927**, 109; 3rd Ed., Vols. I and II, **1931**, 348; 4th Ed., Vol. II, **1933**, 251.
- primary phenylethyl alcohol in essential oils and mixtures of —; Identification of. S. Sabetay, **1929**, 615.
- Perilla Oil**: **1926**, 593.
- Crystalline bromides of —. **1926**, 389.
- Iodine value and refractive index of —. C. A. Lathrap, **1932**, 661.
- Perilla Seed**: **1926**, 593.
- Periodic Acid**: Comparative action of — on certain hexoses and on the artificial glycosides derived therefrom. H. Hérissé, P. Fleury and M. Joly, **1934**, 714.

Periodic Acid—*continued*.

Comparative action of — on α - and β -glycerophosphoric acids. P. Fleury and R. Paris, **1934**, 118.

in presence of iodic acid; Determination of —. P. Fleury and J. Lange, **1933**, 307.

Oxidation of certain poly-alcohols by —. Applications. L. Malaprade, **1928**, 299.

Periodisches System: E. Rabinowitsch and E. Thilo. (Review), **1930**, 721.

Periwinkles: Arsenic in —. **1926**, 552.

Lead in —. **1926**, 564.

Perkin tube. J. T. Dunn, **1934**, 343.

Perkin and Kipping's Organic Chemistry. Part I. F. S. and F. B. Kipping, **1931**, 698; New Ed., Parts 1 and 2 (Review), **1933**, 573.

Permanganate method of determining antimony; Conditions for —. W. Pugh, **1933**, 176.
titration of chaulmoogric acid by —. A. Perkins, **1926**, 465.

action of antimony in white metal. A. Wassilieff and H. Stutzer, **1929**, 620.

titration of iron; Interference of nitric acid in —. D. Totoiescu, **1934**, 366.

Titration of thallos salts with — in hydrochloric acid solution. A. Jilek and J. Lukas, **1929**, 255.

titrations; Colour indicators for —. (a) Determination of ferrocyanide. J. Knop; (b) Determination of iron. J. Knop and O. Kubelkova, **1929**, 437.

Volumetric determination of cobalt with —. J. Ledrut and L. Hauss, **1932**, 409.

Volumetric determination of molybdenum with —. E. Carrière and R. Lautié, **1932**, 407.

Permutit: Determination of ammonia and amide nitrogen in tobacco by the use of —. H. B. Vickery and G. W. Pucher, **1929**, 550.

Peroxidase activity; Determination of —. J. D. Guthrie, **1931**, 194.

activity; New method of estimating —. B. B. Dey and M. V. Sitharaman, **1931**, 821.

Milk —. Its preparation, properties and action with hydrogen peroxide on metabolites. K. A. C. Elliott, **1932**, 394.

Peroxides: Determination of organic —. S. Marks and R. S. Morrell, **1929**, 503.

ether; Detection of —. L. W. Green and R. E. Schoetzow, **1932**, 44.

in ether; Determination of —. M. Landon, **1935**, 260.

in ether; Test for —. G. Middleton and F. C. Hymas, **1928**, 201.

Perry spirit; Accidental presence of acrolein in —. G. Warcollier, A. Le Moal and J. Tavernier, **1934**, 840.

Persimmon: Conductivity and acidity of —. **1933**, 551.

Perspiration deodorisers. **1927**, 531.

Fastness of dyes to —. Composition of —. C. C. N. Vass and B. A. McSwiney, **1930**, 520; C. C. N. Vass, **1931**, 192.

Persulphate as means of determining manganese. R. G. Harry, **1932**, 197.

for the iodimetric determination of chromium and manganese. J. H. van der Meulen, **1932**, 335

Persulphates in bread improvers. **1932**, 99.

Peru Balsam: Comparison of tests for —. E. M. Smelt, **1932**, 724.

Peschianiki fur; Characteristics of —. **1929**, 696.

Pests: Some Common Domestic —. C. L. Claremont and J. M. Burngt, **1933**, 126.

Petrol: Carbon deposit from ethyl —. **1929**, 540.

Colouring of —. **1934**, 284.

Effect of tetra-ethyl lead on the octane number of —. L. E. Hebl, T. B. Rendel and F. L. Garton, **1933**, 239.

gum in —; Determination of —. M. J. Mulligan, W. G. Lovell and T. A. Boyd, **1932**, 796.

in sewage. **1931**, 658.

vapour; Portable combustion apparatus for detecting and measuring small quantities of —. C. A. Neusbaum, P. L. De Verte and E. W. Dean, **1926**, 211.

Petroleum and petroleum products; Bibliography of standard methods of analysing —. **1927**, 347.

Aromatic hydrocarbon content of natural gas —. A. M. Erskine, **1926**, 476.

aromatic hydrocarbons in light —; Determination of —. A. M. Erskine, **1926**, 476.

Autotrophic bacterium which decomposes —. C. B. Lipman and L. Greenberg, **1932**, 263.

"Crude" —. **1932**, 101.

distillates; Determination of sulphur and sulphur derivatives of hydrocarbons in naphtha solutions and —. W. F. Faragher, J. C. Morrell and G. Monroe, **1928**, 54.

hydrocarbons; Action of sulphur monochloride on —. E. Lorand, **1927**, 490.

insecticides; Relation between effectiveness and composition of —. G. P. Gray and E. R. de Ong, **1926**, 211.

oils; Determination of nitrogen bases in —. R. H. McKee and H. H. Parker, **1928**, 172.

oils; Solubility of paraffin wax in —. F. W. Sullivan, W. J. McGill and A. French, **1927**, 727.

oils; Vacuum distillation test for heavy —. A. G. Peterkin and S. W. Ferris, **1926**, 104.

products; Determination of unsaturated compounds in —. A. W. Francis, **1926**, 534.

products; Rapid method of determining sulphur in certain —. E. S. Squire, **1927**, 101.

products; Relation between boiling point and some other properties of —. J. B. Hill and S. W. Ferris, **1926**, 105.

Separation of the components of —. VI, Action of acetic acid. P. F. Gordon and J. Merry, **1928**, 55.

spirit; Extension of the method of critical solution temperatures for the analysis of —. M. Aubert and E. Aubrée, **1926**, 269.

spirit; Separation of lead tetra-ethyl from solution in —. F. W. Foms and C. P. Money, **1928**, 328.

spirit test for purity of castor oil. T. T. Cocking, **1929**, 548.

Petroleum—*continued.*

- Standard Method of Testing— and its Products. 2nd Ed. (Review), 1929, 496; 3rd Ed., 1935, 504.
- sulphur in crude —; Volumetric determination of. G. Woodward, 1929, 616.
- Technology; Scientific Principles of —. (Review), L. Gurwitsch and H. Moore, 1932, 676.
- vapour; Detection of — with the Burrell methane indicator. G. W. Jones and W. P. Yant, 1926, 104.
- Petroselinic Acid**: Halogen absorption of —. 1929, 448.
- Pettenkofer Test**: Quantitative — applicable to the determination of bile acids in the blood. M. Aldrich and M. S. Bledsoe, 1928, 391.
- Pfahl's Reaction**: Detection of bilberry juice by means of — modified for use with sweet wines. R. Ofner, 1931, 672.
- Pflanzenanalyse**: Handbuch der —. Vol. I. (Review), edited by G. Klein, 1931, 621; Vol. II, Part I (Review), 1932, 347; Vol. III, Part 2, 1933, 185; Vol. IV, 1933, 648.
- pH** determinations; Comparison of — as obtained by means of hydrogen electrode and colorimetric methods. C. G. Johnston, 1928, 609.
- determinations; Use of barium sulphate for clarifying soil suspensions, with particular reference to colorimetric —. L. D. Baver and C. J. Rehling, 1930, 645.
- Effect of — on the precipitation of magnesium, zinc, cobalt, nickel, copper and molybdenum from acetate solutions. H. R. Fleck and A. M. Ward, 1933, 388.
- indicators; Coloured — to identify green or dry woods. R. Legendre, 1927, 361.
- range of 3 to 11.5; Universal indicator which gives the colours of the spectrum over a —. H. W. Van Urk, 1929, 254.
- recorder; Automatic —. C. Morton, 1932, 201, 342.
- test of water or unbuffered solutions; Colorimetric —. H. T. Stern, 1926, 100.
- value; Differentiation of aluminium alloys by the use of indicators of the —. Cu. Quillard, 1928, 112.
- value; Influence of the — on a colour reaction of adrenaline. H. Berry and B. Gouzon, 1930, 519.
- value of culture media. J. Gibson, 1931, 312.
- value of gastric contents; Comparison of the electrometric and colorimetric methods of determining —. G. Kahn and J. Stokes, Junr., 1926, 528.
- value of honey and artificial honey. J. Fiehe and W. Kordatzki, 1928, 290.
- value of hypochlorite solutions; Observations on —. L. P. Lynch and C. R. Nodder, 1933, 52.
- value of saliva; Measurement of —. B. C. Soyenkoff and C. F. Hinck, 1935, 485.
- value of tan liquors; Determination of the —. L. Goldman, 1930, 463.
- value of turbid soil and other solutions; Determination of. C. H. Gadd, 1928, 351.

pH—*continued.*

- value of white and yolk of hens' eggs; Increase in the —. P. F. Sharp and C. K. Powell, 1931, 322.
- value of wort or beer; Colorimetric estimation of —. P. Kolbach, 1932, 465.
- value; Sources of error in the colorimetric determination of —. J. W. Schlegel and A. H. Stueber, 1927, 492.
- value; Variations in — during the souring of milk. S. N. Mayoroff, 1935, 556.
- value; Wulff method of determining the —. C. E. Druart, 1927, 657.
- values; Methyl orange error in the determination of — by comparison with Clark's buffer solutions. I. M. Koltthoff, 1926, 423.
- values; Ruler for the interconversion of electromotive force readings and — in the electrometric measurement of hydrogen ion concentration. J. Grant, 1930, 658.
- values; Stable colorimetric scales for measuring —. P. Bruère, 1926, 424.
- Values; What they are and how to determine them. 3rd Ed. T. T. Cocking, 1933, 574.
- "Phalka Ghee"**: Sources of —. 1935, 825.
- Phanodorm**: Toxicological detection of —. J. Peltzer, 1933, 773.
- Pharmaceutical Chemist**; Title of —. 1933, 548.
- Chemistry; Bentley and Driver's Textbook of —. 2nd Ed. J. E. Driver. (Review), 1933, 724.
- Chemistry; Textbook of Inorganic — for Students of Pharmacy and Pharmacists. C. H. Rogers (Review), 1930, 602.
- Codex; British —. Report of Dressings Sub-Committee. 1934, 42.
- drugs analysed by means of ultra-violet rays. P. Ernst and J. Jentschitsch, 1930, 224.
- preparations; Copper content of certain —. N. Evers and L. A. Haddock, 1932, 723.
- preparations; Determination of camphor in —. J. Bougault and Bl. Leroy, 1929, 46.
- preparations; Determination of formaldehyde in certain —. O. Heim, 1929, 537.
- preparations; Determination of hexamethylenetetramine in —. E. Schelek and V. Gervay, 1933, 621.
- preparations; Determination of phenol (carbolic acid) in —. J. Rae, 1930, 398.
- preparations; Determination of synthetic camphor in —. J. Bougault and (Mile) B. Leroy, 1928, 546.
- preparations; Theobromine determined in — by Boie's method. H. J. Van Giffen, 1933, 101.
- Pharmaceutical Society of Gt. Britain**: Codex Revision Committee Reports. 1934, 114.
- Report of the Pharmacological Laboratories— for 1929. 1930, 196.
- Pharmacognosy**: Elementary Textbook for Students of Pharmacognosy. (Chemistry of Crude Drugs). (Review), J. E. Driver and G. E. Trease, 1928, 513.
- Microscopic —. (Review), W. Mansfield, 1930, 531.
- Practical —. (Review), T. E. Wallis, 1926, 56.

- Pharmacological Action of Harrogate Drinking Waters.** W. Bain, **1935**, 130.
- assay of digitalis by different methods. J. W. Trevan, E. Boock, J. H. Burn and J. H. Gaddum, **1928**, 445.
- Laboratories Report for 1929. **1930**, 196.
- properties of some drugs; Effect of polarised light on —. D. I. Macht and W. T. Anderson, Junr., **1927**, 602.
- Pharmacology:** Applied —. 4th Ed. (Review), A. J. Clark, **1932**, 351.
- Bioassays: A Handbook of Quantitative —. (Review), J. C. Munch, **1931**, 490.
- of springs and peats; Observations on —. Prof. Zörkendörfer, **1926**, 482.
- of tetrachloroethylene. P. D. Lamson, B. H. Robbins and C. B. Ward, **1929**, 358.
- Pharmacopoeia:** Arsenic test of the German —. G. Frerichs, **1929**, 56.
- British —. See **British Pharmacopoeia**.
- British sherry and the —. (Legal Notes), **1932**, 310.
- The Extra —. 19th Ed., Vol I. (Review), W. H. Martindale and W. W. Westcott, **1928**, 513; Vol II, **1930**, 229; 20th Ed., Vol. I, **1933**, 309; Vol. II, **1935**, 855.
- Pharmacopoeia Commission Reports**, **1931**, 400, 457; **1932**, 31.
- Pharmacy:** Science and Practice of —. (Review), R. R. Bennett and T. T. Cocking, **1933**, 647.
- Pharmacy and Poisons Act, 1933:** **1933**, 548.
- Appointment of Poisons Boards, **1934**, 43.
- Explained. (Review), H. Glyn-Jones, **1934**, 67.
- Phase Rule** and its Application. (Review), A. Findlay, **1928**, 244.
- Phaseolus Vulgaris:** Allantoic acid in the green parts of —. R. Fosse, **1927**, 92.
- Phenacetin:** Determination of —. G. Weissmann, **1933**, 412.
- Reaction between acetaldehyde and —. O. Carletti, **1928**, 292.
- Phenol** added to milk; Determination of —. H. T. Fawns, **1928**, 489.
- and its homologues in disinfecting fluids; Determination of —. A. F. McCarley, **1932**, 181.
- as disinfectant; Relative effectiveness of —. **1926**, 259.
- Aseptosol: A new antiseptic — from betel leaves. J. McLang, **1926**, 356.
- British Standard Specification for —. **1934**, 144.
- Bromine as a reagent in determining —. **1931**, 733.
- coefficients of coal-tar disinfectants; Limitations of —. C. M. Brewer and G. L. A. Ruehle, **1931**, 330.
- coefficients of coal-tar disinfectants; Variation of — with different test organisms. B. G. Philbrick, **1930**, 594.
- derivatives; Determination of some — from the weight of Lautemann's red. M. François and L. Seguin, **1931**, 829.
- Detection of — by formation of resorufin. H. Eichler, **1934**, 297.
- in ammonia liquor and other solutions; Determination of —. R. D. Williams, **1927**, 360.
- Phenol—continued.**
- in ethyl alcohol; Detection of —. **1927**, 101.
- in, pharmaceutical preparations; Determination of —. J. Rae, **1930**, 398.
- in waste liquors; Two new methods for determining —. H. Dehe, **1929**, 121.
- in water polluted with illuminating gas; Detection of —. **1927**, 654.
- lead in presence of —; Chemical corrosion of. E. Da Fano, **1932**, 268.
- Quantitative separation of — from the cresols and higher phenols. J. N. Miller and O. M. Urbain, **1930**, 213.
- tests. II, Nitrous acid tests. Millon and similar tests. Spectrophotometric investigations. H. D. Gibbs, **1927**, 169; III, The indophenol test. H. D. Gibbs, **1927**, 360.
- Phenolase** activity; Measurement of —. R. Samisch, **1935**, 712.
- Spot test for detecting —. **1934**, 508.
- Phenolic Acids:** Crystal precipitation of —. **1934**, 776.
- Use of — in detecting, separating and determining metals. I, Separation of Group 2A metals. P. N. Das-Gupta, **1929**, 678.
- Phenolphthalein:** Behaviour of methyl orange and — in the oxidation of sugars by alkaline iodine. C. E. Mallen, **1932**, 244.
- in presence of caffeine and cinchona alkaloids and drugs containing anthraquinone. **1932**, 46.
- Phenols:** Aldehyde-oxidation reactions for —, particularly the opium alkaloids. C. C. Fulton, **1930**, 141.
- Biochemical relations of —. II, Effect of hydroquinone on the vitamin A content of stored oil. R. C. Huston, H. D. Lightbody and C. D. Ball, Junr., **1928**, 665.
- carbon tetrachloride as a reagent for —; Use of. G. E. Trease and H. Tingey, **1926**, 534.
- Decomposition of phenolsulphonic acids and purification of — by the sulphonic acid separation method. H. Bruckner, **1929**, 189.
- Determination of —. J. A. Shaw, **1929**, 615.
- Determination of certain — by weighing their aristols. M. François and L. Seguin, **1933**, 777.
- Electrometric titration of — in alcoholic solution. W. D. Treadwell and G. Schwarzenbach, **1928**, 398.
- high-boiling — in a coal-tar creosote and castor oil soap disinfectant; Determination of. J. N. Taylor, **1928**, 452.
- Hydroxyl groups in — determined by benzylation in tetrahydronaphthalene solution at high temperatures. T. M. Meijer, **1934**, 362.
- Identification of —. C. F. Koelsch, **1931**, 201.
- in essential oils; Determination of —. **1928**, 215.
- in river water; Determination of —. Nolte, **1933**, 713.
- in sodium carbonate solution; Reactions of —. **1934**, 775.
- in sterilised milk. A. T. R. Mattick, **1930**, 37.

Phenols—continued.

- Intefraction of amines and — with arylsulphonyl chlorides. F. Bell, **1931**, 802.
- Iron reagents in the detection and differentiation of —. A. H. Ware, **1929**, 58.
- Molecular compounds of polyvalent — with aromatic diamines used as hair dyes. C. Naegeli and H. Kaltmann, **1933**, 777.
- α*-Naphthyl isocyanate as a reagent for aliphatic amines and —. H. E. French and A. F. Wirtel, **1926**, 472.
- New specific tests for distinguishing carbohc acid, the cresols and certain other phenols. A. H. Ware, **1927**, 335.
- Quantitative separation of phenol from the cresols and higher —. J. N. Miller and O. M. Urbain, **1930**, 213.
- Sensitive reaction for benzoylacrylic acid and its uses for characterising —. E. Cattelain, **1927**, 360.
- separation of alcohols and — from oil mixtures; New procedure for. H. Schmidt, **1929**, 57.
- Test for —. C. C. Fulton, **1933**, 238.
- Tests for — involving the use of hydrogen peroxide. A. H. Ware, **1929**, 561.
- Test for citric acid and a reagent for —. M. Pesez, **1935**, 709.
- Typical reactions of —. K. Brauer, **1926**, 534.
- Use of aldehydes and dihydroxy-acetone in detecting and differentiating —. A. H. Ware, **1929**, 614.
- Phenolsulphonic Acids**: Decomposition of — and purification of phenols by the sulphonic acid separation method. H. Bruckner, **1929**, 189.
- Phenosafranine** as adsorption indicator. **1932**, 511.
- as indicator for argentometry. **1930**, 614.
- Phenyl Magnesium Iodide**: Action of tungsten hexachloride on —. W. Brydowna, **1927**, 105.
- Phenyl-Acetic-Acid**: Cresyl esters of —. L. C. Raiford and J. G. Hildebrand, **1929**, 616.
- l-Phenylalanine**: Sublimation temperature of —. **1933**, 117.
- Phenylarsonic Acid** as a precipitant for zirconium and thorium. A. C. Rice, H. C. Fogg and C. James, **1926**, 318.
- as means of determining tin. J. S. Knapper, K. A. Craig and G. C. Chandlee, **1934**, 60.
- p-Phenylenediamine**: Action of — on the skin. H. E. Cox, **1933**, 743.
- as means of detecting copper. R. J. McIlroy, **1934**, 103.
- Chemical reactions of dyeing with —. H. E. Cox, **1934**, 3.
- Detection of —. C. Griebel, **1933**, 714.
- in hair dyes; Detection of —. C. Griebel and F. Weiss, **1933**, 417.
- (in presence of other diamines) in hair dyes; Detection of —. C. Griebel and F. Weiss, **1934**, 197.
- New derivatives of — and their values as hair dyes. H. Meyer, **1929**, 675.
- Phenylethyl Alcohol**: Determination of primary — as oxalate. L. Palfrey, S. Sabetay and D. Sontag, **1933**, 713.

Phenylethyl Alcohol—continued.

- in essential oils and mixtures of perfumes; Identification of primary —. S. Sabetay, **1929**, 615.
- β-Phenylethyl Alcohol**: Detection and identification of —. **1929**, 253.
- Phenylhydrazine** as means of separating titanium from beryllium. **1929**, 271.
- Determination of tungsten with —. G. Dortrepe, **1930**, 347.
- Estimation of —. S. Marks and R. S. Morrell, **1931**, 508. Erratum, **1931**, 620.
- Spot test for —. **1933**, 372.
- p-Phenylphenacyl Bromide** as a reagent for identifying organic acids. N. L. Drake and J. Bronitsky, **1930**, 713.
- o-Phenylphenol**: Determination of —. W. O. Emery and H. C. Fuller, **1935**, 634.
- Philippine coffee**: Composition of —. A. Valenzuela, **1930**, 139.
- kapok seed oil; Composition of —. A. O. Cruz and A. P. West, **1931**, 816.
- lumbang oil; An odoriferous oil and two new linolic tetrabromides from —. S. Santiago and A. P. West, **1927**, 300.
- lumbang oil; Analysis of —. A. O. Cruz and A. P. West, **1930**, 596.
- rice bran; Nitrogen distribution and carbohydrate partition in —. J. Marañon and L. Cosme, **1935**, 827.
- rice oil (Ramai variety). A. O. Cruz, A. P. West and V. B. Aragon, **1932**, 466.
- starches; Photomicrographs of —. R. N. Allen, **1929**, 686, 744.
- talisay oil from the seeds of *Terminalia catappa*. A. O. Cruz and A. P. West, **1932**, 467.
- woods; Laboratory tests on the durability of — against fungi. O. A. Reinking, **1931**, 474.
- Philippine Islands**: Annual Report of the Bureau of Science for the year 1931. **1933**, 347.
- Philosophers**: Three — (Lavoisier, Priestley and Cavendish). W. Aykroyd, (Review), **1935**, 206.
- Phloroglucinol**: Detection of woody plant membranes with — and hydrochloric acid. W. Pahl, **1932**, 124.
- method for determining mechanical wood pulp in paper. H. B. Dunncliff and H. D. Suri, **1932**, 354.
- Phosgene** from chloropicrin; Preparation of —. S. Secareano, **1927**, 491.
- Phosphatase**: Plasma —. I. Method of determination. Some properties of the enzyme. H. D. Kay, **1931**, 123.
- Phosphate-bearing silicates**; Analysis of —. A. Lassieur, **1934**, 504.
- buffers; Determination of glucose in presence of —. M. B. Visscher, **1926**, 521.
- Colorimetric determination of —. C. Zinzadze, **1935**, 640.
- content of bones; Determination of —. C. K. Deischer and W. M. McNabb, **1935**, 750.
- Determination of small quantities of — by Pouget and Chouchak's method. S. G. Clarke, **1931**, 518.
- fertilisers; Labelling of —. **1930**, 506.

Phosphate—*continued.*

- inorganic — in blood serum; Colorimetric method for determining. S. L. Leiboff, **1928**, 663.
 inorganic — in presence of arsenic; Determination of. L. B. Pett, **1934**, 647.
 New test for —. L. W. Marrison, **1935**, 784.
 Precipitation of titanium as —. T. Da-Tchang and L. Houong, **1933**, 638.
 Qualitative analysis in presence of —. T. B. Smith, **1933**, 365.
 rock; Determination and occurrence of iodine in —. W. L. Hill and K. D. Jacob, **1933**, 303.
 rock and slag; Determination of fluorine in —. D. S. Reynolds and K. D. Jacob, **1931**, 835.
 Use of isomeric amino-naphthol-sulphonic acids for colorimetric determination of —. B. Vásárhelya, **1930**, 350.

Phosphates and the growth of streptococci. (Studies in bacterial nutrition. III), H. R. Whitehead, **1927**, 243.

- Efficacy of mixtures of natural and solubilised — measured by a bacteriological method and the effect of higher plants. G. Truffaut and N. Bezssonoff, **1928**, 235.
 in potable waters; Colorimetric determination of — by the Denigès method. R. Danet, **1927**, 427.
 Influence of different classes of — in the thiocyanate method of estimating iron. G. W. Leeper, **1930**, 370. Erratum, **1931**, 183.
 mineral-; New method of evaluating —. E. Vanstone, **1926**, 47.
 Precipitation of zirconium by —. R. D. Reed and J. R. Withrow, **1929**, 491.
 Rapid method of determining —. R. F. Le Guyon and R. M. May, **1926**, 48.
 Thomas —; Phosphoric acid in. **1926**, 70.
Phosphatid-Lecithin number of egg-lecithin; Choline factor of egg-yolk and —. F. E. Nottbohm and F. Mayer, **1934**, 182.

Phosphatide content of cacao beans. B. Rewald and H. Christlieb, **1931**, 465.

- content of cacao beans and its change during manufacture. B. Rewald and H. Christlieb, **1931**, 603.
 contents of varieties of bread. B. Rewald, **1931**, 113.
Phosphatids of wheat flour. F. E. Nottbohm and F. Mayer, **1934**, 417.
Phosphine as indicator for argentometry. **1930**, 614.
 in gases; Rapid determination of —. M. Wilmet, **1927**, 558.
 Reaction of — with nitrous acid. **1927**, 492.

Phosphites: Detection and differentiation of — in presence of hypophosphites. D. Raquet and P. Pinte, **1933**, 627.

- Rapid iodimetric determination of hypophosphites and —, alone or mixed. D. Raquet and P. Pinte, **1933**, 556.

Phospholipids: Metabolism of —. The passage of elaidic acid into tissue —. R. G. Sinclair, **1933**, 832.**Phospholipids**—*continued.*

- nitrogen and phosphorus in —; Application of selenium catalyst in determining. F. W. Kurtz, **1933**, 636.

Phosphomolybdate: Micro-determination of phosphorus as —. R. H. A. Plimmer, **1934**, 370.**Phosphoric Acid**: Acid methyl ethers of —. V. Harlay, **1934**, 705.

- Adsorption of — by stannic sulphide. R. Chandelle, **1929**, 769.

assimilable by soil; Neubauer's chemico-physiological method for determining —. C. Antoniani and M. Nicolini, **1931**, 825.

- chromium in presence of —; Notes on the determination of, with perchloric acid as oxidising agent. J. Haslam and W. Murray, **1934**, 609.

Determination of — as magnesium ammonium phosphate. G. Jörgensen, **1926**, 61.

- Determination of manganese in steel by the Proctor-Smith reaction in presence of —. B. C. Mukerjee, **1927**, 689.

Elimination of — by lead acetate in qualitative analysis. G. G. Kandilarow, **1928**, 178. for determining melting points. F. D. Snell, **1930**, 656.

- for use in preparing National Mark cider, **1933**, 36.

in eggs; Rapid method for determining acid-soluble —. J. Fitelson and I. A. Gaines, **1932**, 43.

- in hydrochloric acid and citric acid extracts of soils; Colorimetric determination of —. R. G. Warren and A. J. Pugh, **1931**, 128.

in presence of silica and alumina; Determination of —. T. Millner and F. Kunos, **1933**, 422.

- in qualitative micro-analysis; Elimination of —. S. Ginsburg and M. H. Pringsheim, **1933**, 783.

in soil; Application of the strychnomolybdic method to the determination of —. C. Antoniani and S. Bonetti, **1929**, 485.

- in soils; Colorimetric determination of —. A. Nemeč, **1926**, 532.

in Thomas phosphates. **1926**, 70.

- Microchemical determination of — as strychnine phosphomolybdate. C. Antoniani and R. B. Jona, **1928**, 405.

Micro-determination of — with "molybdenum-blue." S. Zinzadze, **1932**, 411.

- Modification of Ridsdale's method for determining —. A. S. Dodd, **1928**, 276.

New indicator for the volumetric determination of —. L. Duparc and E. Rogovine, **1928**, 509.

- Potentiometric titration of strongly coloured fruit solutions containing added —. A. Gaines, Junr., **1933**, 39.

Separation of calcium, magnesium and —. H. Brintzinger and E. Jahn, **1934**, 646.

- Sources of error in determining —. J. M. McCandless and J. I. Burton, **1927**, 305.

Phosphoric Anhydride: Application of Ridsdale's modification of Pemberton's method for volumetric determination of — to fertilisers. A. M. Cameron and W. T. Dow, **1927**, 576.

Phosphoric Anhydride—*continued*.

Pyrophosphate method of determining magnesium and —. A. W. Epperson, **1928**, 239.

Phosphoric Ion as a sensitive reagent. Differentiation of antimony and tin. T. G. Y. Arnal, **1929**, 256.

in soils and fertilisers; Rapid determination of the — by ceruleomolybdimetry. G. Denigès, **1928**, 351.

Phosphorites: Fluorine in — determined by a simplified method. S. A. Rosanow, **1933**, 781.

Phosphorous Acid: Detection of —. N. A. Tananaeff and C. N. Potschinok, **1932**, 540. Iodimetric determination of —, and use of sodium hydrogen carbonate in iodimetry. P. Carre, **1928**, 305.

Phosphorus: E. B. R. Prideaux. Being Part 2 of Vol. VI of A Textbook of Inorganic Chemistry. (Review), **1934**, 511.

Absorption of oxygen by —. H. R. Ambler, **1934**, 593; C. T. Kingzett, **1934**, 816.

Analysis of red —. S. A. Tolkatschoff and M. A. Portnoff, **1930**, 768.

Atomic weight of —. **1928**, 160, 289; **1929**, 295; **1934**, 547.

Colorimetric determination of —. C. H. Fiske and Y. Subbarow, **1926**, 205; E. J. King, **1932**, 532.

Colorimetric determination of minute amounts of compounds of silicon, of — and of arsenic. W. R. G. Atkins and E. G. Wilson, **1927**, 249.

compounds and arsenic compounds of seawater. W. R. G. Atkins and E. G. Wilson, **1927**, 427.

compounds of milk. IV, Presence of adenine nucleotide in milk. H. D. Kay and P. G. Marshall, **1928**, 391.

content of casein. R. E. L. Berggren, **1932**, 318.

content of hens' eggs. J. Grossfeld and G. Walter, **1934**, 491.

content of maize meal used in rachitogenic rations; Variation in —. W. L. Davies, **1934**, 341.

content of milk; Effect of heat on —. E. C. V. Mattick and H. S. Hallett, **1929**, 557.

Dialysis of milk. Distribution of —. L. H. Lampitt and J. H. Bushill, **1933**, 615.

distribution in the blood of fish, eels and turtles. C. M. McCay, **1931**, 263.

Effect of nitric acid fumes on —. **1935**, 427.

Electroscopic method for detecting yellow — in the presence of tetraphosphorus tersulphide. W. D. Treadwell and C. Beeli, **1935**, 849.

Elon and sodium sulphite as reducing agents in the colorimetric determination of —. G. van der Lilgen, **1933**, 755.

for the human subject; Comparison of raw, pasteurised, evaporated and dried milks as sources of calcium and —. M. M. Kramer, E. Latzke and M. M. Shaw, **1928**, 307.

in alloys; Determination of —. B. Salkin, **1927**, 305.

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in aluminium; Determination of —. W. D. Treadwell and J. Hartnagel, **1932**, 798.

in arable soil; Comparative estimations of — by Hilgard's, Neubauer's and Niklas' methods. A. and R. Sartory and Others, **1935**, 488.

in blood; Determination of —. J. H. Gaddum, **1927**, 241.

in cabbage; Water-soluble content of calcium and —. W. H. and C. B. Peterson, **1927**, 93.

in casein; Determination of —. R. E. L. Berggren, **1932**, 319.

in coal. **1934**, 35.

in milk; Determination of acid-soluble — by means of trichloroacetic acid filtrates. G. P. Sandes, **1931**, 401.

in milk; Dialysable —. L. H. Lampitt and J. H. Bushill, **1934**, 828.

in phospholipids; Application of selenium catalyst in determining —. F. E. Kurtz, **1933**, 636.

in small samples of steel; Determination of —. S. G. Clarke, **1931**, 518.

in steel, alloy steels and cast iron; Determination of —. A. T. Etheridge, **1931**, 471.

(See also List of Errata); N. D. Ridsdale, **1931**, 452.

in various parts of the wheat grain. G. Bertrand and L. Silberstein, **1933**, 617.

in water; Photometric micro-determination of —. **1933**, 719.

Inorganic blood — in rats fed on normal, rachitic and irradiated rachitic diets. R. A. Dutcher, M. Creighton and H. A. Rothrock, **1926**, 206.

labile — in various kinds of muscles; Occurrence of. L. Irving and P. H. Wells, **1928**, 346.

lead in copper alloys containing —; Determination of. **1933**, 25.

lipoidal — in blood; Colorimetric method for determining. S. L. Leiboff, **1929**, 50.

Micro-determination of — as phosphomolybdate. R. H. A. Plimmer, **1934**, 370.

Reaction between elementary — and potassium iodate and its utilisation in the volumetric determination of —. T. F. Buehrer and O. E. Schupp, **1927**, 171.

White — in matches. **1926**, 412.

yellow — in red —; Determination of very small amounts of. R. H. Kray, **1927**, 605.

Phosphotungstic Acid: Basic dyes determined by precipitation with —. R. W. Payne, **1934**, 843.

Phospho-12-Tungstic Acid: Precipitation of *l*-, *dl*- and *m*-cystine by —. G. Toennies and M. Elliott, **1935**, 773.

Photochemical action of various sterols. L. Hugouenq and E. Couture, **1929**, 302.

method of determining traces of iron. B. S. Sharma, **1930**, 67.

methods of measuring solar ultra-violet radiation; Standardisation of —. H. S. Mayerson, **1935**, 723.

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- methods of testing sources of ultra-violet radiation. F. C. Hymas, **1929**, 622.
 production of vitamin *D* from ergosterol. O. Rosenheim and T. A. Webster, **1927**, 652.
Photo-Electric determination of coloured gases. H. and A. Copaux, **1926**, 111.
Photographic emulsions; Determination of silver in —. J. P. Lawrie, **1930**, 216.
 spectro-polarimeter for the ultra-violet. A. Cotton and R. Descamps, **1926**, 164.
Photography as an Aid to Scientific Work. Ilford, Ltd., **1934**, 728.
 by means of heat rays by Plotnikov's method. L. Šplait, **1930**, 224.
 Infra-Red —. (Review), S. O. Rawling, **1933**, 726; 2nd Ed., **1935**, 790.
 Its Principles and Practise. (Review), C. B. Nebllette, **1928**, 64.
Photometer: Cube — for comparing the whiteness of fabrics. A. Adderley, **1929**, 684.
 for gauging intensity of ultra-violet rays; Simple portable —. F. W. Alexander, **1926**, 54.
Photometric Chemical Analysis. Vol I, Colorimetry. (Review), J. H. Yoe, **1929**, 193.
 Vol. II, Nephelometry. (Review), J. H. Yoe and H. Kleinmann, **1929**, 564.
 method for measuring the covering power of paints. H. D. Bruce, **1926**, 371.
 standards. **1935**, 470.
Photometrical Processes. (Review), G. B. Kistiakowski, **1929**, 127.
Photomicrographs of Philippine starches. R. N. Allen, **1929**, 686, 744.
Photomicrography: Fluorescence —. P. Metzner, **1932**, 130.
 Handbook of —. (Review), H. L. Hind and H. B. Randles, **1927**, 561.
 of ink sediments in pen writing. T. J. Ward, **1930**, 568.
 of leather fibres; Interpretation of —. D. J. Lloyd and R. H. Marriott, **1931**, 276.
 of wool fibres. J. Manley, **1930**, 469.
 Practical —. (Review), J. E. Barnard and F. V. Welch, **1926**, 486.
 Use of tungsten arc lamps for —. E. E. Jelley, **1931**, 420.
Photo-Processes in Gaseous and Liquid Systems. (Review), R. O. Griffith and A. McKeown, **1930**, 72.
Photosynthesis: The Assimilation of Carbon by Green Plants. (Review), W. Stiles, **1926**, 326.
Phthalic Acid: Separation of homophthalic acid and —. H. G. Poole, **1928**, 399.
Physical Chemistry; Elementary Practical —. (Review), J. F. Spencer, **1928**, 63.
 Chemistry; Inorganic —. (Review), G. H. Cartledge, **1926**, 217.
 Chemistry; Introduction to —. (Review), A. Findlay, **1934**, 140.
 Chemistry; Introduction to —. (Review), F. B. Finter, **1927**, 175; Revised Ed., **1933**, 574.
 Chemistry; Practical —. (Review), 5th Ed., A. Findlay, **1931**, 276. Erratum, **1931**, 352.

Physical—continued.

- Chemistry; Practical — and Colloid Chemistry for Students of Medicine and Biology. (Review), 2nd Ed., L. Michaelis, **1926**, 221.
 Chemistry; Recent Advances in —. (Review), S. Glasstone, **1932**, 68; 2nd Ed., **1934**, 140.
 Chemistry; Recent advances in Inorganic and —. (Review), 5th Ed., A. W. Stewart, **1926**, 541; 6th Ed., **1931**, 425.
 Chemistry; Theoretical and Experimental —. (Review), J. C. Crocker and F. Matthews, **1928**, 242.
 constants and standards. **1930**, 512.
 Constants; Annual Tables of —. (Review), **1927**, 54.
 constants; Chemical and —. (Review), G. W. C. Kaye and T. H. Laby, **1927**, 53.
 constants of essential oils. Essential Oil Subcommittee Report No. 1), **1927**, 53C; Report No. 2, **1929**, 335.
 Laboratory. See **National Physical Laboratory**.
Physico-Chemical analysis by means of the boiling of saturated solutions. E. Cornec and P. Klug, **1927**, 660.
 Interpretation of Analytical Processes. (Review), T. B. Smith, **1930**, 156.
 methods. (Review), J. Reilly, W. N. Rae and T. S. Wheeler, **1926**, 487; 2nd Ed., **1934**, 510.
 Practical Exercises. W. N. Rae and J. Reilly, **1934**, 376.
Physico-Engineering investigations. **1927**, 543.
Physics: International critical tables of numerical data of —. (Review), **1926**, 482.
Physikalische Methoden der analytischen Chemie. Vol. I, Spektroskopische und Radiometrische Analyse. (Review), G. Scheibe, H. Mark and R. Ehrenberg **1935**, 63.
Physiological action of hashish. Wiechowski, **1926**, 643.
 Chemistry; Introduction to —. (Review), M. Bodansky, **1927**, 664; 2nd Ed., **1931**, 139; 3rd Ed., **1934**, 851.
 Chemistry; Practical —. 7th Ed. (Review), S. W. Cole, **1926**, 273; 8th Ed., **1929**, 70; 9th Ed., **1934**, 143.
 Chemistry; Laboratory Manual of —. 3rd Ed. M. Bodansky and M. Fay, **1935**, 504.
 importance of nickel. G. Bertrand and H. Nakamura, **1927**, 652.
Physiology: Plant —. M. Thomas, **1935**, 728. (Review), **1935**, 788.
Physostigmine: Methyl red as indicator for —. **1926**, 316.
 Microchemical reactions of —. M. Wagenaar, **1929**, 424.
Phytin content of foodstuffs. H. P. Averill and C. G. King, **1926**, 252.
Phytosterol of sunflower seed oil; Phytosteryl acetate test and the —. J. Allan and C. W. Moore, **1928**, 44.
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 test as a routine method in the examination of butter-fats with borderline Reichert-Meissl values. H. Hawley, **1933**, 52½.

- Pickling salt**; Rapid method of determining the amount of sodium nitrite in —. J. Peltzer, **1932**, 467.
solutions; Nitrite in —. **1928**, 598.
- Picramnia Sow**: Fat from the seeds of —. A. Steger and J. van Loon, **1933**, 565.
- Picrasma Javanica** bark. **1934**, 754.
- Picrate**: Preparation of a picrolonate from a — as a means of identification. L. Klein and J. F. Wilkinson, **1932**, 27.
- Picric Acid**: Action of — on tropine silicotungstate. R. Hazard, **1928**, 446.
as an artificial standard in the colorimetric determination of silica. E. J. King and C. C. Lucas, **1928**, 617.
as means of determining naphthalene. A. P. W. Münch and R. T. Heukers, **1935**, 634.
Compound of creatinine, — and sodium hydroxide. I. Greenwald, **1928**, 400.
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in foodstuffs; Identification of —. **1928**, 420, 421.
in solution; Determination of —. M. François and L. Seguin, **1931**, 122.
Purification of — for creatinine determination. S. R. Benedict, **1929**, 428.
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- Picrolonate**: Preparation of a — from a picrate as a means of identification. L. Klein and J. F. Wilkinson, **1932**, 27.
- Picrolonic Acid** as means for the quantitative determination of calcium, **1931**, 832.
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as means of determining lead. F. Hecht, W. Reich-Rohrwig and H. Brantner, **1934**, 130.
as reagent for alkali metals. Y. Volmar and M. Leber, **1933**, 368.
as reagent for sodium. Y. Volmar and M. Leber, **1933**, 782.
- Picrotoxin** as animal poison. **1928**, 536.
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- Pictures** and works of art; Methods of testing minute quantities of material from —. A. P. Laurie, **1933**, 468.
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Methods of examining (identification of pigments, etc.). A. P. Laurie, **1930**, 162.
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Scientific Examination of —. (Review), M. de Wild, **1930**, 306.
- Pig**: Body fats of the —. I, Influence of ingested fat on the component fatty acids. R. Bhattacharya and T. P. Hilditch, **1932**, 256; II, Some aspects of the formation of animal depot fats suggested by the composition of their glycerides and fatty acids. A. Banks and T. P. Hilditch, **1932**, 531; III, Influence of body temperature on the composition of depot fats. H. K. Dean and T. P. Hilditch, **1934**, 286.
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- Pigment**: blood-; Reaction of potassium ferricyanide with the —. M. Nicloux and J. Roche, **1926**, 95.
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- Pigments**: Analysis of —, Paints and Varnishes. (Review), J. J. Fox and T. H. Bowles, **1927**, 110.
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anthocyanin — in canning; Behaviour of. C. W. Culpepper, **1927**, 648.
cadmium red —; Analysis of. C. G. Daubney, **1932**, 22.
Distinction of — in ultra-violet light. M. J. Schoen and J. Rinse, **1929**, 684.
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- Pigs** fed on menhaden oil; Nature of the highly unsaturated fatty acids stored in the lard from —. J. B. Brown, **1931**, 187.
- Pilgrim Whale**: Fatty oil of the —. Biological relations between the cholesterol and squalene. E. André and H. Canal, **1929**, 605.
- Pills**: Celery —. **1934**, 32.
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- Pilocarpine** and its salts; New method for determining —. J. A. Sanchez, **1935**, 420.
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Helch's reaction for —. F. Bredebach, **1933**, 625.
Microchemical reactions of —. M. Wagenaar, **1930**, 412.
quantitative separation of — from quinine by means of gallotannin; Experiments on. M. Nierenstein, **1932**, 94.
- Pilot Whale Blubber Oil**: Highly unsaturated acids in —. Y. Toyama and T. Tsuchiya, **1934**, 831.
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- Pimento pepper**; Effect of waste — on the colour of egg yolks. W. A. Morgan and J. G. Woodroof, **1927**, 653.
 Red "pigment in the "Perfection" —. W. L. Brown, **1935**, 625.
- Pimiento pepper**; Vitamin *A* content of —. L. Ascham, **1934**, 122.
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- Pinachrome** as a one-colour indicator. I. M. Kolthoff, **1928**, 455.
- Pine woods**; Distinction between hoop — and bunya —. W. E. Cohen, **1933**, 636.
- Pine Needle concentrate**; Use of — to render canned preserves antiscorbutic. N. Jarusowa, **1935**, 566.
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- Pineapples**; Effect of ethylene on the enzymes of —. L. O. Regeimbal and R. B. Harvey, **1927**, 354.
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- Pinene** content of American gum spirits of turpentine evaluated by optical means. S. Palkin, **1932**, 331.
- Pinus Radiata***; Chemical investigation of — in relation to its paper-making qualities. I. Distribution and nature of the non-volatile ether extractives. W. E. Cohen, **1935**, 618.
- Piperazine** in the analysis of urine and blood. R. Gros, **1929**, 49.
- Piperidine**; Determination of — in a mixture of pyridine and higher homologues. A. Travers and Franquin, —, **1931**, 203.
- Piperidinium Piperidyl-Dithioformate**; Application of — to the colorimetric determination of copper. R. G. Harry, **1931**, 736.
- Piperine**; Microchemical reactions of —. M. Wagenaar, **1929**, 424.
- Piperonal** as a means of detecting isopropyl alcohol in brandy, spirits, tinctures, cosmetics and liniments. G. Reif, **1928**, 497; **1929**, 552; **1931**, 115.
 in vanilla extract. C. B. Gnadinger, **1926**, 417.
 Microchemical detection of —. M. Wagenaar, **1932**, 673.
- Piperonaldehyde**; Methone as reagent for —. **1929**, 486.
- Pipes**; Effect of frost on tellurium-lead —. **1933**, 367.
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- Pipette**; Automatic —. A. Henderson and J. Roberts, **1929**, 737; M. Hyman, **1929**, 125.
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- Pips** of limes; Oil from —. S. C. Marshall and M. S. Salamon, **1926**, 237.
- Piqui-A fats**; Component glycerides of —. T. P. Hilditch and J. G. Rigg, **1935**, 417.
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- Pituitary extract**; Anti-diuretic effect of —. **1930**, 196.
- Pituitary—continued.**
 extract; Comparison of the oxytocic, pressor and anti-diuretic activities of commercial samples of —. U. G. Bijlsma, J. H. Burn and J. H. Gaddum, **1929**, 298.
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 powders; Bio-essay of commercial —. W. T. McClosky and J. C. Munch, **1929**, 298.
 solutions; Bio-essay of —. **1926**, 43.
- Plaice**; Identification of —. **1935**, 70.
- Plankton**; Inter-relationships of — and bacteria in natural purification of polluted water. C. T. Butterfield and W. C. Purdy, **1931**, 330.
 Sterols of —. G. Belloc, R. Fabre and H. Simmonet, **1930**, 587.
- Plant amylases**; Influence of vitamin *C* on —. A. Purr, **1934**, 710.
 Analysis; Handbook of —. Vol. I. (Review), G. Klein, **1931**, 621; Vol. III, Part 2, **1933**, 185.
 ash constituents; Determination of — in presence of silica. J. Davidson, **1932**, 55.
 Biochemistry; Introduction to —. (Review), C. C. Steele, **1934**, 855.
 Biochemistry; Practical —. (Review), M. W. Onslow, **1929**, 774.
 Biochemistry; Principles of —. Part 1. (Review), M. W. Onslow, **1931**, 346.
 Biology; An Outline of the Principles underlying Plant Activity and Structure. (Review), H. Godwin, **1930**, 778.
 cells; Detection of nickel in —. Martini, **1930**, 456.
 cells; Research on vitamin *A* in —. P. Joyet-Lavergne, **1935**, 195.
 colouring matters. LV, Occurrence of α - and β -carotene in various natural products. P. Karrer and W. Schlientz, **1934**, 293.
 extracts; Determination of sugars in —. T. G. Phillips, **1932**, 325.
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 fats; Distribution of dihydrositosterol in —. R. J. Anderson, F. B. Nabenhauer and R. L. Shriner, **1927**, 164.
 foods; Copper content of animal and —. C. W. Lindow, C. A. Elvehjem and W. H. Peterson, **1929**, 420.
 foods; Iron content of animal and —. W. H. Peterson and C. A. Elvehjem, **1928**, 444.
 foodstuffs; Reduction-capacity of — in relation to vitamin *C*. I, Reducing substance in lemon juices. J. Tillmans, P. Hirsch and W. Hirsch, **1932**, 260; III, Content of reducing substance in different fruits and vegetables. J. Tillmans, P. Hirsch and J. Jackisch, **1932**, 396; IV, Reversibility of the oxidation of the reducing substances in lemon juice. J. Tillmans, P. Hirsch and H. Dick, **1932**, 397; V, J. Tillmans, P. Hirsch and R. Vaubel, **1933**, 295.

Plant—continued.

- growth; Importance of boron in —. E. S. Johnston, **1929**, 48.
- Growth; Soil Condition and —. (Review), Sir E. J. Russell, 5th Ed., **1927**, 257; 6th Ed., **1932**, 344.
- haemagglutinins with special reference to a preparation from the navy bean. V. R. Goddard and L. B. Mendel, **1929**, 429.
- juices containing vitamin C; Reducing value of — as determined by 2:6-dichlorophenol indophenol. H. H. Mottern, E. M. Nelson and R. Walker, **1933**, 48.
- lecithin; Biological distinction of egg lecithin and — by means of the complement-combination method. O. Mezger, H. Jesser and M. Volkmann, **1933**, 167.
- materials; Aluminium in the ash of —. L. Hart, **1932**, 525.
- materials; Colorimetric methods for determining manganese in —. J. Davidson and R. G. Capen, **1932**, 56.
- materials containing rotenone (derris root, tubé root, etc.); Chemical evaluation of —. P. A. Rowaan, **1935**, 483.
- materials; Determination of aluminium in —. O. B. Winter and O. D. Bird, **1929**, 451.
- materials; Determination of methoxyl, lignin and cellulose in —. M. Phillips, **1932**, 402.
- materials; Determination of small quantities of nitrogen in —. J. T. Sullivan and L. E. Horat, **1929**, 303.
- materials; Inaccuracies of the Devarda method when applied to —. E. R. Ranker, **1927**, 556.
- materials; Manganese content of animal and —. C. W. Lindow and W. H. Peterson, **1928**, 43.
- membranes; Detection of woody — with phloroglucinol and hydrochloric acid. W. Plahl, **1932**, 124.
- Physiology. (Review), M. Thomas, **1935**, 788.
- Products. (Review), S. H. Collins, **1927**, 108.
- Products; Introduction to the Chemistry of —. Vol. I, 4th Ed. (Review), P. Haas and T. G. Hill, **1928**, 681; Vol. II, 2nd Ed., **1929**, 775.
- species; Value of stomatal numbers for distinguishing —. H. A. Timmerman, **1927**, 291.
- tissue; Association of vitamin A with greenness in —. I, Relative vitamin A content of lead and leaf lettuce. M. Dye, O. C. Medlock and J. W. Crist, **1927**, 552; II, Vitamin A content of asparagus. J. W. Crist and M. Dye, **1929**, 300; III, Vitamin A content of asparagus grown under light of various qualities. J. W. Crist and M. Dye, **1931**, 410.
- tissue; Determination of malic acid in —. G. W. Pucher, H. B. Vickery and A. J. Wakeman, **1934**, 714.
- tissues; Association of fat-soluble vitamins and anti-oxidants in —. E. M. Bradway and H. A. Mattill, **1935**, 111.
- tissues; Chlorate method for determining nitrate nitrogen, total nitrogen and other elements in —. E. M. Emmert, **1929**, 491.

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- tissues; Detection of glucosides in —. A. Niehammer, **1932**, 62.
- tissues; Determination of common carotenoids and analyses of carotene and leaf xanthophyll in thirteen —. E. S. Miller, **1935**, 265.
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- pectic substances of —; Critical and historical study of. Food Investigation Report No. 33. **1929**, 594.
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- Fungi; Edible and —. (Review), Ministry of Agriculture and Fisheries Publication No. 54. **1926**, 604.
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- Poisons** and Powerful Drugs; Laboratory Manual for the Detection of —. (Review), W. Autenreith, **1929**, 126.
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Potassium Ferricyanide: Reaction of — with the blood pigment. M. Nicloux and J. Roche, **1926**, 95.

titration; Determination of the diastatic power of malt by —. F. W. Norris and W. A. Carter, **1935**, 415.

Potassium Ferrocyanide: Determination of purity of — by titration with zinc sulphate solution. Farbsalz - Gesellschaft, Berlin, **1929**, 437.

Ferric chloride as indicator in the titration of — with zinc sulphate. P. F. Felkers, **1930**, 407.

required for fining wine; Colorimetric method for determining the amount of —. A. Hanak, **1930**, 583.

Potassium Formate: Quantitative separation of copper and cadmium by reduction with —. E. I. Fulmer, **1931**, 687.

Potassium Iodide: iodine-free —; Preparation. C. O. Harvey, **1934**, 479.

Reactions of anaesthetic ethers with — and with mercury, and the test for foreign odours. E. Mallinckrodt, Junr., **1927**, 718.

Potassium Iodate: Determination of vanadium with —. A. J. Berry, **1934**, 736.

Direct titration of thalious salts by —. A. J. Berry, **1926**, 137.

potassium iodide and — method for the titration of Kjeldahl distillates; Use of. H. F. Wilson and F. Mattingley, **1926**, 569.

Potassium Iodate—*continued.*

Reaction between elementary phosphorus and — and its utilisation in the volumetric determination of phosphorus. J. F. Byehrer and O. E. Schupp, **1927**, 171.

Use of — in back titration for determining hypochlorite content of solutions. J. R. Lewis and R. F. Klockow, **1929**, 123.

Volumetric determination of tin with —. J. B. Ramsay and J. G. Blann, **1934**, 434, 571.

Volumetric determination of vanadium by means of —. E. H. Swift and R. W. Hoeppel, **1929**, 491.

Potassium Iodide and iodate method for titrating Kjeldahl distillates; Use of —. H. F. Wilson and F. Mattingley, **1926**, 569.

Effect of — in the Shaffer-Hartmann micro sugar reagent. W. A. de Long, **1927**, 350.

Influence of purity of — on results of measuring the strength of sunlight, **1931**, 314.

potassium in —; Determination of. F. S. Hawkins and J. R. Partington, **1927**, 614.

Potassium Iodomercurate: Potentiometric determination of alkaloids by means of —. L. Maricq, **1930**, 284; **1931**, 120.

Potassium Ion: Reagent for —. T. G. Y. Arnal, **1929**, 369.

Potassium Manganate in volumetric analysis; Use of —. H. Gall and M. Ditt, **1932**, 409.

Potassium Metabisulphite: stability of solutions of —; Note on the. R. J. Phillips, **1928**, 150.

Potassium Perchlorate: Study of —. E. Kahane, **1933**, 781.

Potassium Permanganate and potassium dichromate in a mixture; Volumetric determination of. B. L. Vaish and M. Prasad, **1933**, 148.

in acetone; Oxidation of dihydroxystearic acid by —. J. Bougault and G. Schuster, **1932**, 191.

Oxidation of official castor oil by —. Study of triazelain. G. Schuster, **1931**, 188.

solution; Determination of the titre of — by means of electrolytic iron. L. Moser and W. Schöninger, **1927**, 250.

Potassium Perrhenate as precipitant for alkaloids. **1934**, 137.

Potassium Stearate: Volumetric determination of sulphates by means of barium chloride and —. H. Atkinson, **1926**, 81.

Potassium Thiocyanate: Colorimetric determination of iron with —. L. S. v. d. Vlugt, **1928**, 615.

Potassium Titanium Oxalate for preparation of standard titanium solution in colorimetry. W. M. Thornton, Junr., and R. Roseman, **1930**, 648.

Potato as index of iodine distribution. R. E. Remington, F. B. Culp and H. von Kolnitz, **1929**, 760.

crisps; Alum in —. **1930**, 685.

oxidase; New method for determining the activity of certain oxidases with preliminary study of the —. A. E. Stearn and A. A. Day, **1930**, 147.

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 starch; Iodine method for determining —, **1934**, 678.
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 starch; Quantitative determination of the composition of — according to size of granule. G. Bredemann and O. Nerling, **1930**, 220.

Sweet —. See **Sweet Potato**.

Potatoes: Agricultural Produce (Grading) (—)

Regulations, 1930, No. 117. **1931**, 43.
 Blackening of — after cooking. C. K. Tinkler, **1931**, 676.
 Changes in the composition of — during winter storage. L. Erdős, **1934**, 418.
 Iodine content of —. J. F. McClendon, E. Barrett and T. Canniff, **1934**, 839.
 Iodine content of Pennsylvania —. D. E. H. Frear, **1934**, 418.
 Narcotine isolated from —. **1932**, 188.
 specific gravity, total solids and starch content of —; Correlation between, **1926**, 520.
 starch in —; Determination of. G. Rankoff, **1927**, 419.

Potential: Application of controlled — to microchemical electrolytic analysis. A. J. Lindsey and H. J. S. Sand, **1935**, 739.

Separation of bismuth and lead by graded —. A. J. Lindsey, **1935**, 744.

Potentials: Electrolytic separations by graded —. A. Lassieur, **1926**, 597.

Estimation of liquid contact — with potassium chloride and ammonium chloride. G. M. Pline, M. R. Meacham and S. F. Acree, **1932**, 340.

Use of saturated ammonium chloride in the elimination of contact —. C. N. Murray and S. F. Acree, **1932**, 340.

Potentiometric analysis; New electrode-combination for rapid —. W. Hiltner, **1933**, 723.

determination of alkaloids by means of potassium iodomercurate. L. Maricq, **1930**, 284.

determination of gallium. H. D. Kirschman and J. B. Ramsey, **1928**, 455.

titration; Method for differential —. D. A. MacInnes and P. T. Jones, **1927**, 50.

titration of ammonia. E. B. R. Prideaux, **1929**, 365.

titration of boric acid in presence of certain inorganic salts. M. G. Mellon and F. R. Swim, **1928**, 178.

titration of some oxidising acids. M. L. Malaprade, **1926**, 271.

titration of tin with potassium bromate. K. Sandved, **1927**, 2.

Titration. (Review), I. M. Kolthoff and N. H. Furman, **1927**, 253; 2nd Ed., **1932**, 350.

Potted Meat: **1930**, 751; **1931**, 658; **1934**, 819; **1935**, 755.

A standard for —. C. H. Manley and R. W. Sutton, **1930**, 11.

Boric acid in —. (Legal Notes), **1926**, 299.
 paste sold as potted beef. (Legal Notes), **1932**, 382.

Preservatives in —. **1934**, 31.

Potted Meat—*continued.*

Sulphur dioxide in —. **1931**, 808.

Pottery: Ancient Egyptian —. **1926**, 444.

Nature of the colour of —, with special reference to that of ancient Egypt. A. Lucas, **1929**, 686.

Pouget and Chouchak's Method for determining small quantities of phosphate —. Determination of phosphorus in small samples of steel. S. G. Clarke, **1931**, 518.

Poultry: Cold storage of —. Chemical changes in the fat of gas-stored chickens. C. H. Lea, **1935**, 44.

Manure. **1935**, 243.

Poutet Reagent: Isomerisation of a fatty oil by —. **1934**, 313.

Powders: New method of mounting — for microscopical examination. W. O. Howarth, **1929**, 494.

Power Alcohol production from sugar beet. (Report to Minister of Agriculture), **1926**, 463.

Praseodymium: Atomic weight of —. **1928**, 160; **1929**, 296; **1934**, 547.

Prawns: Arsenic in —. **1926**, 553, 554.

Lead in —. **1926**, 564.

Precipitates: Drying of — in gravimetric analysis. A. Pichler, **1930**, 298.

Flocculation of troublesome — in analysis. W. Clayton, **1927**, 76.

Use of sand for centrifuging small —. S. Stene, **1932**, 592.

Precipitin anti-sera; Instability of — in the tropics. H. S. Shrewsbury, **1929**, 29.

method for the analysis of albumin and globulin in biological fluids. E. Goettsch and F. E. Kendall, **1935**, 422.

test for blood. G. R. Lynch, **1928**, 5, 435; H. S. Shrewsbury, **1928**, 380; Sir W. Willcox, **1928**, 3.

test; Keeping properties of specific anti-sera for the —. F. Bamford, **1928**, 531.

test; New method of applying the. L. C. Haddon, **1934**, 342.

Pregl micro carbon-hydrogen determination Note on Schöbel's heating block for —. H. Lieb, **1934**, 718.

micro-combustion; Electric heater for —. B. Flaschenträger, **1931**, 210; W. Fünér, **1932**, 199; R. Guillemet, **1933**, 248.

micro-combustion; New cymene bath for —. A. Verdino, **1932**, 199.

micro-combustion of carbon and hydrogen; Pre-heater for use in —. W. F. Bruce, **1935**, 844.

micro-combustion of carbon and hydrogen, without the use of air. F. Vetter, **1932**, 541.

Preheater: Constant temperature —. S. T. Bowden, **1930**, 531.

for Pregl micro-combustion of carbon and hydrogen. W. F. Bruce, **1935**, 844.

Preservation of eggs. **1931**, 383.

of eggs; Effect of chemical — upon the stability of their vitamin contents. E. Tso, **1926**, 312.

of vitamin C in dried orange juice. G. J. Humphrey, **1926**, 586.

Preservative: Boric acid sold as food — (Legal Notes), **1929**, 106.

- Preservative**—*continued*.
 Hydrogen peroxide as ——. 1928, 161.
 in meat. Refusal of warranty by wholesaler. (Legal Notes), 1929, 742.
 Regulations. Government Laboratory Report on ——. 1928, 595.
 Regulations in Germany. 1928, 541.
 value of hops. Colorimetric determination of ——. J. M. Guthrie and G. G. Philip, 1933, 411; A. A. D. Comrie, 1935, 48.
- Preservatives** Determination Committee of the Chemists of the Manufacturing Confectioners' Alliance and of the Food Manufacturers' Federation; Report of the ——. Determination of sulphur dioxide. 1928, 118.
 Examination of foodstuffs for ——. A caution. A. Chaston Chapman, 1927, 215.
 food ——. Cold storage and. (Parliamentary Notes), 1926, 189.
 Food ——. Some aspects of the new regulations on. C. A. Mitchell, 1926, 372.
 for food in Germany. 1934, 348.
 for wood; Testing of ——. 1931, 127.
 found in foods. 1935, 821.
 in food. Public Health Regulations. Draft Rules and Orders, 1926. 1926, 578.
 in food. Public Health Amendment Regulations, 1926. No. 1557. 1927, 33.
 in food. Public Health Provisional Regulations, 1927. 1927, 285. Circular 782. 1927, 286.
 in food; Public Health Regulations. Circular 852. 1928, 42.
 in Food Regulations; Postponement of ——. (Ministry of Health Notice), 1926, 351.
 in food. Suggested revision of Regulations. 1933, 401.
 sulphur dioxide in food ——. Excess of. (Legal Notes), 1928, 38.
- Preserve tins.** See **Tins**.
- Preserved eggs;** Fresh and ——. G. Filandeau, 1926, 197.
 peas; Composition of — in relation to their diameter. E. Lasausse, 1926, 199.
 peas; Differentiation of "regenerated" — and green ——. C. F. Muttelet, 1926, 150.
 peas; Specific characteristics of "regenerated" ——. J. Froidevaux, 1927, 91.
- Preserves:** tin in ——. Volumetric method of determining. B. Glassmann and S. Barsutzkaja, 1929, 110.
- Preserving Salt:** sodium nitrite in ——. Rapid method of determining the amount of. J. Peltzer, 1932, 467.
- Presidential Addresses:** 1926, G. Rudd Thompson, 1926, 120; 1927, E. R. Bolton, 1927, 183; 1928, E. R. Bolton, 1928, 190; 1929, E. Hinks, 1929, 201; 1930, E. Hinks, 1930, 238; 1931, J. T. Dunn, 1931, 221; 1932, J. T. Dunn, 1932, 213; 1933, F. W. F. Arnaud, 1933, 192; 1934, F. W. F. Arnaud, 1934, 218.
 Council decision on dates of ——. 1935, 2.
- Pressor** activity of commercial samples of pituitary extract; Comparison of the oxytocic, anti-diuretic and ——. U. G. Bijlsma, J. H. Burn and J. H. Gaddum, 1929, 298.
- Pressure:** Changes in the State of Matter in their dependence upon Temperature and ——. The States of Aggregation. (Review), G. Tammann, 1926, 489.
- Prickly-Pear** honey. 1927, 31.
- Primeverose** and rhamnigenol, the products of enzymic hydrolysis of rhamnicoside. M. Budel and C. Charaux, 1926, 41.
- Primuline:** Reaction of — with nitrous acid. 1927, 492.
- Printing Inks:** Arsenic in ——. T. H. Barry, 1927, 217; R. S. Morrell and C. I. Smyth, 1927, 339.
 aluminium and magnesium in ——. Identification of. L. M. Larsen, 1931, 64.
 Chemistry and Manufacture of Writing and ——. (Review), W. B. Gamble, 1927, 313.
 Strokes made with ——. 1927, 583.
- Prints:** Cleaning of discoloured ——. 1927, 81.
- Procaine:** cocaine in mixtures of cocaine and ——. Separation and detection of. C. H. Riley, 1935, 710.
 Colour reaction for — and some other local anaesthetics, and its application to determination of ——. E. R. Riegel and J. F. Williams, 1927, 41.
 Colour reactions of — which distinguish it from cocaine and similar substances. M. Wagenaar, 1932, 579.
 Microchemical identification of novocaine (—). M. Wagenaar, 1933, 178.
- Procaine Borate:** G. W. Collins, 1932, 47.
- Proctor-Smith Reaction:** Determination of manganese in steel by the — in presence of phosphoric acid. B. C. Mukerjee, 1927, 689.
- Proflavine:** 1932, 295.
- Projectiles:** Examination of ——. 1932, 576.
- L-Proline:** Sublimation temperature of ——. 1933, 117.
- Proof:** The Problem of ——. (Review), A. S. Osborn, 1927, 180.
- Propaesin:** New colour reaction for ——. 1927, 41.
- Propane:** Oxidation over a platinised silica-gel. 1934, 198.
- 2-Propanol:** Analytical uses of ——. G. W. Ferner and M. G. Mellon, 1934, 768.
- Propenyl** and allyl compounds; Aromatic ——. I. Safrol and isosafrol. H. I. Waterman and R. Priester, 1928, 555.
- Propionic Acid:** Effect of — on glacial acetic acid. 1926, 284.
 in acetic acid and acetic anhydride; Determination of ——. F. Baur, 1927, 607, 608.
- Propionic Aldehyde:** Methone as reagent for ——. 1929, 486.
- Propolis:** Composition of —, and origin of colouring matter of beeswax. G. F. Jaubert, 1927, 418.
- Propyl Alcohol:** Modification of Thorpe and Holmes' method for determining ——. S. S. Aiyar and P. S. Krishnan, 1935, 237; Erratum, 1935, 537.
 primary — in mixtures of ethyl alcohol and water; Determination of. O. Noetzel, 1932, 734.
- N-Propyl Alcohol:** 1929, 8.
- Propylene:** Ignition point of — in nitrous oxide. 1927, 614.

- Protamines and Histones.** (Review), A. Kossel, 1929, 71.
- Protargol:** Analytical research on — (determination of alkalinity and silver). A. L. Dragenesco and E. Weinberg-Sacketti, 1931, 131.
- Differentiation reactions of argyrol, collargol, electargol and —. C. Vaillat, 1934, 422.
- Protein:** Alcohol-soluble — isolated from polished rice. W. F. Hoffman, 1926, 205.
- Cod muscle —. 1929, 36.
- concentrates; Colorimetric determination of the tyrosine and tryptophan content of various crude —. W. D. McFarlane and H. L. Fulmer, 1931, 264.
- containing mixtures; Method for determining tyramine in —. M. T. Hanke, 1926, 204.
- content of corn (maize); Relation of — to specific gravity. 1926, 519.
- Digestibility of — determined by Bergeim's method. W. D. Gallup, 1929, 247.
- histidine in —; Quantitative determination of. M. T. Hanke, 1926, 204.
- hydrolysis; New method for the separation of the products of —. M. A. B. Brazier, 1930, 705.
- in diet; Value of cocoa and chocolate as source of —. H. H. Mitchell, J. R. Beadles and M. H. Keith, 1927, 95.
- nutritive value of a —; Effect of heat and oxidation on. H. Goldblatt and A. R. Moritz, 1927, 292.
- solutions; Volumetric method for determining —. W. D. Treadwell and W. Eppenberger, 1929, 114.
- surrounding the fat globules in milk; Nature of the —. R. W. Titus, H. H. Sommer and E. B. Hart, 1928, 163.
- tyrosine in —; Quantitative determination of. M. T. Hanke, 1926, 204.
- value of meat in nutrition; Relation of connective tissue content of meat to the —. H. H. Mitchell, J. R. Beadles and J. H. Kruger, 1927, 483.
- Proteine:** Die Rolle der Zyklischen Aminosäureanhydride in der Neueren Strukturchemie der —. (Review), E. Klarmann, 1930, 71.
- Proteins:** Analysis of —. VII, Direct determination of arginine. R. H. A. Plimmer and J. L. Rosedale, 1926, 309.
- animal-; Detection of yeast by the yeast gum reaction in presence of the products of hydrolysis of —. H. Kraut, 1928, 228.
- Arginase method for determining arginine and its use in the analysis of —. A. Hunter and J. A. Dauphinee, 1930, 203.
- Arnold's sodium nitroprusside reaction for —, and the deparating of flesh — by means of concentrated urea solution. 1933, 408.
- Biological value of —. V. M. A. Boas-Fixsen, J. C. D. Hutchinson and H. M. Jackson, 1934, 557.
- blood-; Use of molybdic acid as a precipitant for —. S. R. Benedict and E. B. Newton, 1929, 428.
- Proteins—continued.**
- carbohydrate groups in —; Application of the orcinol reaction to the determination of the nature and amount of. M. Sørensen and G. Haugaard, 1933, 492.
- Chemistry of — and its Economic Applications. (Review), D. Jordan Lloyd, 1926, 429.
- cystine in —; Improved colorimetric method for determining. O. Folin and A. D. Marenzi, 1929, 553.
- Definition of —. 1928, 41.
- Effect of heat upon the biological value of cereal — and casein. A. F. Morgan, 1931, 328.
- Errors introduced into the determination of lignin by the presence of —. A. G. Norman and S. H. Jenkins, 1935, 336.
- Factors for converting percentages of nitrogen in foods and feeds into percentages of —. D. B. Jones, 1931, 813.
- Formalin titration of —. D. W. Steuart, 1933, 754.
- Hausmann numbers of —; Micro method of determining. K. V. Thimann, 1927, 239.
- Histidine content of a number of —. M. T. Hanke, 1926, 204.
- in milk; Combination of amino-acids and —, with acids and alkalis, and their combining weights. L. J. Harris, 1926, 39.
- in the arachis nut; Properties of arachin and conarachin and the proportionate occurrence of these —. D. B. Jones and M. J. Horn, 1930, 395.
- in the white of hens' eggs; Carbohydrate content of —. M. Sørensen, 1934, 701.
- isoelectric point of —. 1931, 74.
- Labile sulphur in —. H. Zahnd and H. T. Clarke, 1933, 708.
- labile sulphur in gelatin and —; Determination of. S. E. Sheppard and J. H. Hudson, 1930, 214.
- methionine in —; Determination of. H. D. Baernstein, 1932, 728.
- Micro methods of determining — in medicine and biology. A. Wasitzky, 1934, 303.
- milk-; Determination of —. G. M. Moir. I, Chemistry of separation of casein. 1931, 2; II, Identity of the casein precipitate. 1931, 73; III, Proposed modified method for casein. 1931, 147; IV, Combined determination of albumin and globulin. 1931, 228.
- milk-; Formaldehyde titration of — and its use in the detection of re-constituted creams, etc. J. C. Harral, 1933, 605.
- milk- in cacao products; Method for determining. H. C. Waterman and H. A. Lepper, 1927, 350.
- molecular weight of —; New method of determining the. T. Svedberg and R. Fähræus, 1926, 216.
- nutritive value of —; Quantitative methods of measuring the. H. M. Mitchell, 1929, 47.
- of meat. E. C. B. Smith, 1935, 485.
- of muscle; Approximate determination of —. E. C. B. Smith, 1935, 44.

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- of the wheat corn; Colour reaction of the —. E. Rabaté and J. Fleckinger, **1930**, 334.
- of yeast (*Saccharomyces cerevisiae*). F. A. Csonka, **1935**, 486.
- serum—; Colorimetric determination of the —. D. M. Greenberg, **1929**, 428.
- serum—; Fractionation of — by means of ammonium sulphate. A. Muschel, **1928**, 548.
- silver —; Official titles of. J. W. E. Harrison, **1926**, 585.
- Soya-bean —. M. Mashino, **1935**, 716.
- Studies on the combination between certain basic dyes and —. L. M. C. Rawlins and C. L. A. Schmidt, **1929**, 487.
- tryptophane in —; Further application of the vanillin and hydrochloric acid reaction to the determination of. I. K. Ragins, **1929**, 115.
- tyrosine content of —; Determination of. M. T. Hanke, **1928**, 672.
- Tyrosine content of a number of —. M. T. Hanke, **1926**, 204.
- Yeast method for silver —. H. Wales, **1928**, 547.
- Proteolysis** in stored eggs. A. K. Balls and T. L. Swenson, **1934**, 629.
- Proteolytic** activity of papain; Measurement of —. H. C. Gore, **1929**, 762.
- enzyme titration; Examination and application of the Gates method of —. A. Gilman and G. R. Cowgill, **1930**, 765.
- enzymes; Reaction of azine compounds with —. G. M. Richardson and R. K. Cannan, **1929**, 761.
- Protides** of the wheat grain; Colorimetric micro-reactions of the glutogenic —. P. Bruère, **1931**, 66.
- Proto-Actinium**: Atomic weight of —. **1929**, 296.
- Protocatechuic Acid** in pigmented onion scales and its relation to disease resistance in the onion. K. P. Link, A. D. Dickson and J. C. Walker, **1930**, 60.
- Isolation of — from pigmented onion scales. K. P. Link, H. R. Angell and J. C. Walker, **1929**, 240.
- Protosynthesis**: (Review), H. A. Spoehr, **1927**, 176.
- Prunes**: Boron compounds in —. **1929**, 16.
- Isolation of quinic acid from —. **1931**, 323.
- vitamin C content of —; Effect of drying and sulphuring on. A. F. Morgan, A. Field and P. F. Nicholls, **1931**, 329.
- Prunol**: (Ursolic acid). **1931**, 258.
- Prunus Laurocerasus**: Methods for determination of nitrogenous constituents of —. M. E. Robinson, **1930**, 146.
- Prussian Blue**: Analysis of —. F. G. A. Enna, **1926**, 479.
- Prussiate** analysis; Standard method of —. **1929**, 38.
- Prussic Acid** in linseed meal. (Legal Notes), **1927**, 30.
- poisoning. **1932**, 576.
- Pseudo-Ephedrine** from *Ephedra alata*. O. F. Black and J. W. Kelly, **1928**, 166.
- Pseudomorphine** produced from morphine. C. C. Fulton, **1934**, 49.
- Properties of —. C. C. Fulton, **1934**, 49.
- Separation and determination of morphine, — and related substances. A. K. Balls, **1927**, 162.
- Psychotrine**: Bromine as a reagent in determining —. **1931**, 732.
- Psyllium** seed. R. Hansche and E. U. Still, **1933**, 767.
- Public Analysts**, Appointment of —. See **Appointments**.
- Evidence by Assistants of —. (Legal Notes), **1930**, 39.
- Form of certificate of —. (Legal Notes), **1933**, 534.
- Notes from reports of —. See **Aberdeen, Birmingham, Bristol, Derby, Durham, Essex, Fulham, Gibraltar, Hammersmith, Jersey, Kensington, Kent, Kingston-upon-Hull, Lancaster, Leeds, Leicester, Portsmouth, Salford, Somerset, Stepney**. See also **Ministry of Health**.
- Society of —. See **Society of Public Analysts**.
- Varying conditions of appointment of —. **1927**, 187.
- Public Health Amendment Regulations**, 1927. (Ministry of Health Statutory Rules and Orders, 1927. No. 277.) **1927**, 479.
- Applied Chemistry: A Practical Handbook for Students of —. Vol. I, 3rd Ed. (Review), C. K. Tinkler and H. Masters, **1935**, 501.
- Bulletins (U.S.A.), No. 144. Comparative tests of instruments for determining atmospheric dusts. **1926**, 36.
- (Condensed Milk) Amendment Regulations, 1927. (Ministry of Health Statutory Rules and Orders, No. 1092). **1928**, 98.
- Congress and Exhibition, 1934; Fourth —. **1935**, 282.
- (Dried Milk) Amendment Regulations, 1927. (Ministry of Health Statutory Rules and Orders, No. 1093). **1928**, 98.
- (Imported Milk) Regulations, 1926. **1926**, 197.
- (Imported Milk) Regulations, No. 820. Ministry of Health. **1926**, 576.
- (Preservatives in Food) Amendment Regulations, 1926, No. 1557. **1927**, 33.
- (Preservatives in Food) Provisional Regulations, 1927. **1927**, 285; Circular 782. **1927**, 286.
- (Preservatives in Food) Regulations. Circular 852. **1928**, 42.
- (Preservatives in Food) Regulations. Draft Rules and Orders, 1926. **1926**, 578.
- Report No. 57. Determination of sucrose, lactose and invert sugar in sweetened condensed milk. G. W. Monier-Williams, **1930**, 573.
- Pudding Spice**: **1928**, 153, 220.
- Pulegone**: oil of —; Microchemical distinction of. **1929**, 363.
- Pulp** and Paper-Making; Chemistry of —. 2nd Ed. (Review), E. Sutermeister, **1929**, 626.
- apple — in jam; Detection of. W. Partridge, **1926**, 346.

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- fruits. — See **Fruit Pulp**.
 Quantitative determination of mechanical wood —, unbleached chemical —, and bleached chemical — fibres in paper — and —. B. K. Mukhopadhyay and K. K. Tamy, **1935**, 529.
- Pump**: Mercury oscillating —. J. T. Donnelly, C. H. Foott, H. Nielsen and J. Reilly, **1928**, 62.
- Pumpnickel**: Detection of Riegel's "new preservative for —." P. Weinstein, J. Muesmann and W. Bodschwina, **1931**, 542.
- Pumpkin Seed**: Fatty oil from —. Constitution of linolic acid. J. L. Riebsomer and G. A. Nesty, **1934**, 830.
- Pungent Principles**: Relations between constitution and taste of —. N. A. Lange, H. L. Ebert and L. K. Youse, **1929**, 480.
- Putranjiva Roxburghii Wall**: Oil from the seeds of —. S. Krishna and S. V. Puntumbekar, **1931**, 671.
- Putrefaction**: Detection of incipient — and determination of saline ammonia in flesh. B. Glassmann and F. Rochwarger, **1930**, 281.
- in meat and meat products; Detection of incipient —. E. Arbenz, **1926**, 250; R. Herzner and O. Mann, **1926**, 634.
- of flesh; Chemical and physico-chemical changes accompanying the beginning of —. J. Tillmans, P. Hirsch and A. Kuhn, **1927**, 239.
- Putrefying organic media**; Changes undergone by —. M. Magnette, **1926**, 419.
- Pyramidone**: Action of Schiff's reagent on —. A. Valdiviú, **1929**, 112.
- antipyrine in —; Detection and determination of —. M. Ribère, **1931**, 123; P. Duquénois, **1932**, 581; J. Eury, **1933**, 290.
- as a reagent for blood. M. Elzas and L. M. Lansberg, **1927**, 167.
- Assay of — by the silver cyanide method. R. Machtou, **1931**, 326.
- Colorimetric determination of ferric iron by means of —. H. W. van Urk, **1926**, 594.
- Colour reaction of —. N. Schoorl, **1935**, 560.
- Chemical reactions of —. M. Wageenaar, **1935**, 575.
- Pyrazolone Jaune** as adsorption indicator, **1932**, 511.
- Pyrethrin I**: Monocarboxylic chrysanthemic acid from the hydrolysis of —; Colour reaction of —. M. Audiffren, **1934**, 556.
- Pyrethrin I and II** in pyrethrum; Determination of —. F. Tattersfield and R. P. Hobson, **1929**, 549.
- in *Pyrethrum cinerariaefolium*: Insecticidal value and determination of —. F. Tattersfield and R. P. Hobson, **1929**, 351.
- Relative toxicity of —. C. B. Gnadinger and C. S. Corl, **1930**, 644.
- Pyrethrolon** in pyrethrum flowers; Presence of —. C. B. Gnadinger and C. S. Corl, **1933**, 300.
- Pyrethrum** dusts; Loss of toxicity of —. F. Tattersfield, **1932**, 401.
- flowers. I, Determination of the active principles. C. B. Gnadinger and C. S. Corl, **1929**, 754; IV, Relative toxicity of pyrethrins I and II. C. B. Gnadinger and C. S. Corl, **1930**, 644.
- flowers; Effect of storage on —. C. B. Gnadinger and C. S. Corl, **1932**, 661.
- flowers; Evaluation of —. J. T. Martin and F. Tattersfield, **1931**, 189.
- flowers grown in New Zealand. **1935**, 103.
- flowers; Presence of pyrethrolon and methylpyrethrolon in —. C. B. Gnadinger and C. S. Corl, **1933**, 300.
- pyrethrin I and II in —; Determination of —. F. Tattersfield and R. P. Hobson, **1929**, 549.
- vapours; Toxicity of — to honey bees. J. M. Ginsburg, **1930**, 596.
- Pyrethrum cinerariaefolium**: Insecticidal value and determination of pyrethrin I and II in —. F. Tattersfield and R. P. Hobson, **1929**, 351.
- Pyrex** as a container for radium solutions. L. F. Curtiss, **1927**, 615.
- Pyridine**: Acetylation in — as means of determining free primary and secondary alcohols in the presence of tertiary alcohols in essential oils. R. Delaby and S. Sabetay, **1935**, 838.
- bases; Behaviour of indicators in the titration of —. R. T. Thomson, **1928**, 315.
- Detection and determination of —. S. B. Tallantyre, **1931**, 202.
- Detection and determination of small amounts of —. J. W. Kulilkow and T. N. Krestowdwigenskaja, **1930**, 344.
- Detection of small amounts of —, particularly in burnt wood. A. Brüning and M. Schnetka, **1934**, 432.
- for removing grease stains. **1932**, 478.
- in dilute aqueous solution; Determination of —. V. Ionescu and H. Slusanchi, **1934**, 127.
- in nicotine; Determination of small amounts of —. N. Strafford and R. T. Parry-Jones, **1933**, 380.
- nicotine in presence of — and its derivatives; Tests for —. R. Hofmann, **1932**, 199.
- piperidine in a mixture of — and higher homologues; Determination of —. A. Travers and Franquin, —, **1931**, 203.
- Spot test for —. **1933**, 372.
- test as a quantitative method for determining minute amounts of chloroform. W. H. Cole, **1927**, 94.
- Pyridine Sulphate Bromide** method of determining iodine values. H. Hawley, **1933**, 601.
- Pyrites**: Arsenic in arsenical —. **1929**, 533.
- selenium in —; Determination of —. K. Brückner, **1933**, 783.
- "**Pyrizite**" (a sodium borofluoride preparation): Relative effectiveness of — as disinfectant. **1926**, 259.
- Pyrocaciferol**: **1932**, 54.
- Pyrocatechol** compounds; New metallic — and their use in microchemical analysis. A. Martini, **1926**, 646.

- Pyrogallate** solution; Use of alkaline — in gas analysis. J. S. Haldane and R. H. Makgill, 1933, 378.
- Pyrogallol**: Absorption of oxygen by alkaline —. T. J. Drakeley and H. Nicol, 1929, 306.
- Behaviour of fish oils with uranium nitrate and —. W. H. Dickhart, 1927, 725.
- method for determining nitrates in soil and waters. L. U. De Nardo, 1929, 360.
- on furs; Identification of —. 1935, 798.
- Pyrogenic** reaction for malic, tartaric and citric acid; New —. J. A. Sanchez, 1927, 358.
- Pyrolysis** of Carbon Compounds. (Review), C. D. Hurd, 1929, 689.
- of vegetable oils of pronounced acetyl value. R. Delaby and R. Charonnat, 1931, 61.
- Pyrophosphate**: Determination of manganese as —. D. Balarew and N. Desew, 1927, 364.
- method for determining magnesium and phosphoric anhydride. A. W. Epperson, 1928, 239.
- method of determining beryllium. 1928, 402.
- orthophosphate in presence of meta- and —; Colorimetric determination of. K. Boratynski, 1935, 842.
- Simultaneous determination of orthophosphate and —. R. Dworzak and W. Reich-Rohewig, 1929, 435; W. Stollenwerk and A. Bäurle, 1929, 435.
- Pyrophosphoric Acid**: Volumetric determination and separation of ortho-, meta- and —. S. Aoyana, 1931, 480.
- Pyrosulphate-Hydrolysis** method; Observations on the —. Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. W. R. Schoeller and E. F. Waterhouse, 1928, 467.
- Pyrotannic Acid** method for determining carbon monoxide in blood and in air. R. R. Sayers and W. P. Yant, 1926, 99.
- Pyrrrole**: Influence of — on the colour test for reactive organo-metallic compounds. H. Gilman and L. L. Heck, 1931, 199.
- Pyrrolic Compounds**: Colour reaction of —. E. Montignie, 1932, 588.
- Pyruvic Acid**: Determination of —. B. H. R. Krishna and M. Sreenivasaya, 1929, 59; W. B. Wendel, 1933, 712; G. Carpeniseanu, 1934, 298.
- in bacterial metabolism, with an account of the methods for detecting and determining —. R. P. Cook, 1931, 57.
- Q
- Qualitative** Analyse auf Präparativer Grundlage. 3rd Ed. (Review), W. Strecker, 1933, 506.
- Analyse mit Hilfe von Tüpfelreaktionen. (Review), F. Feigl, 1931, 492; 2nd Ed., 1935, 205.
- Analysis. E. J. Holmyard, 1929, 130; W. Wardlaw, 1929, 130.
- Analysis. Vol. I of Analytical Chemistry. 7th English Ed. (Review), F. P. Treadwell and W. T. Hall, 1931, 349; 1932, 678.
- Analysis; Application of ammonium oxalate in systematic —. M. O. Charmandarjan, 1930, 153.
- Qualitative** — continued.
- analysis; Application of the benzoate method of separating iron, aluminium and chromium in —. L. Lehrman and J. Kramer, 1935, 197.
- Analysis by means of Modern Drop Reactions; Short Manual of —. (Review), C. J. Van Nieuwenburg and I. G. Dulfer, 1934, 66.
- Analysis; Calculations of —. C. J. Engelder. (Review), 1933, 573.
- analysis; Delicate test for mercury in systematic —. A. W. Scott, 1930, 216.
- analysis; Detection of vanadium in systematic —. J. Röhl, 1928, 559.
- Analysis; Elementary —. (Review), C. J. Engelder, 1930, 417; 2nd Ed., 1933, 508; 1934, 511.
- analysis; Elimination of phosphoric acid by lead acetate in —. G. G. Kandilarow, 1928, 178.
- analysis in presence of phosphate. T. B. Smith, 1933, 365.
- analysis; Organic reagents in —. II, L. Lehrman, H. Weisberg and E. A. Kabat, 1934, 844.
- analysis; Systematic, — by means of modern drop reactions. C. J. van Nieuwenburg, 1931, 483.
- analysis without ammonium sulphide. A. S. Komarowsky and W. J. Goremykin, 1932, 333.
- Chemical Analysis. (Review), R. K. McAlpine and B. A. Soule, 1934, 374.
- Chemical Analysis. 5th Ed. (Review), F. M. Perkin, 1935, 789.
- Chemical Analysis; Essentials of —. (Review), J. C. Ware, 1929, 438.
- Chemical Analysis; Laboratory Manual of —. (Review), T. J. Bardley, 1928, 308.
- Chemische Analyse nach dem Schwefelnatriumgang. (Review), G. Vortmann and R. Lieber, 1934, 581.
- Elementary Analytical Chemistry. (Review), 11th Ed. F. Clowes and J. B. Coleman, 1931, 137.
- Inorganic Analysis; Aids to —. R. G. Austin, 1934, 584.
- micro-analysis; Elimination of phosphoric acid in —. S. Ginsburg and M. H. Pringsheim, 1935, 783.
- micro-electrolysis with a small electrode. H. J. Brenneis, 1931, 618.
- Organic Analysis. Elementary Course in Identification of Organic Compounds. 2nd Ed. (Review), O. Kamm, 1933, 184.
- Organic Analysis; Introduction to —. (Review), H. Staudinger, 1926, 488.
- Organic Chemical Analysis; A Student's Manual of Quantitative and —. (Review), J. F. Thorpe and M. A. Whiteley, 1926, 55; 1927, 312.
- Organic Analysis; Tetrachlorophthalimide as reagent in —. C. F. H. Allen and R. V. V. Nichols, 1934, 570.
- Qualitativ**en Analyse; Anleitung zur Organischen —. H. Staudinger, 1929, 502.
- Chemical Analysis; A Student's Manual of Qualitative and —. (Review), J. F. Thorpe and M. A. Whiteley, 1926, 55.

Qualitativem—continued.

- Analysis; Inorganic** —. H. A. Fales, 1929, 502.
- Analysis; Elementary** —. (Review), C. J. Engelder, 1930, 356.
- analysis; New method of** — applicable to a mixture of the rare earths. E. Delauney, 1927, 614.
- Analysis of Inorganic Materials.** (Review), N. Hackney, 1930, 775.
- Organic Micro-Analysis.** 2nd Eng. Ed. (Review), F. Pregl, 1930, 776.
- analysis; Student precision in** —. T. F. Buehrer and O. E. Schupp, Junr., 1927, 53.
- Analysis; Textbook of** —. (Review), W. T. Hall, 1931, 422; 2nd Ed., 1935, 853.
- Analysis; Theory and Technique of** —. M. Farnsworth, 1929, 502.
- Analytical Chemistry.** (Review), W. T. Hall, 1928, 258.
- Analytische Mikromethoden der Organischen Chemie.** C. Weygand, 1932, 70.
- Chemical Analysis.** 13th Ed. (Review), Clowes and Coleman, 1932, 597.
- Chemical Analysis.** 6th Ed. A. C. Cumming and S. A. Kaye. (Review), 1935, 503.
- Chemical Analysis; Modern Method in** —. (Review), A. D. Mitchell and A. M. Ward, 1933, 63.
- Clinical Chemistry.** Vols. I and II. (Review), J. P. Peters and D. D. Van Slyke, 1933, 181.
- determination of unweighable amounts of material.** F. Emich, 1933, 784.
- drop analysis.** III, Kjeldahl nitrogen determination and determination of non-protein nitrogen of blood. P. L. Kirk, 1935, 642.
- Elementary Analytical Chemistry.** 11th Ed. (Review), F. Clowes and J. B. Coleman, 1931, 137.
- micro-analytical determination of certain hydroxy-acids by means of the photo-electric cell.** A. S. Williams, R. H. Muller and J. B. Niederl, 1931, 619.
- Organic Chemical Analysis; A Student's Manual of** —. (Review), J. F. Thorpe and M. A. Whiteley, 1927, 312.
- oxidation with ceric sulphate; Experiments on** —. A. J. Berry, 1929, 461.
- Pharmacology; A Handbook of** —. (Review), J. C. Munch, 1931, 490.
- spectral analysis.** P. Urbain, 1931, 67.
- spectrographic analysis.** A. Schleicher and J. Clermont, 1932, 66.
- spectroscopy and its analytical applications; Discussion on** —. J. J. Fox, 1935, 3; S. Judd Lewis, 1935, 10.
- Quantum Chemistry.** (Review), A. Haas, 1931, 275.
- Quartz crystals in honey.** F. E. Nottbohm and F. Lucius, 1931, 462.
- dust particles in the atmosphere; Determination of** —. F. Löwe, 1933, 571.
- lamp; Use of the analytic** — for testing drugs. P. W. Danckwortt and E. Pfau, 1927, 707.
- mercury vapour lamp; Testing seeds, etc., under the** —. A. Nieghammer, 1929, 563.
- Quebrachine; Identity of yohimbine and** —. Raymond-Hamet, 1928, 500.
- Queensland; Report of the Government Analyst** (J. B. Henderson) for the year 1924–25, 1926, 245; for 1925–26, 1927, 31; for 1926–27, 1928, 39; for 1927–28, 1928, 652; for 1928–29, 1929, 746; for 1929–30, 1931, 32; for 1931–32, 1933, 98; for 1933–34, 1935, 40.
- Quercitrin on furs; Identification of** —. 1935, 795.
- Quicklimes; Fineness and available lime content of** —. J. S. Rogers, 1929, 190.
- Quillaia Saponin; Colorimetric test for** —. J. Rae, 1935, 186.
- Quinaldic Acid as an analytical reagent.** P. Rây and A. K. Majundar, 1935, 494.
- as analytical reagent.** P. Rây and M. K. Bose, 1934, 199.
- Quinalizarin as means of determining small amounts of boron.** G. S. Smith, 1935, 735.
- Quince; Non-volatile acids of the** —. E. K. Nelson, 1927, 418.
- seed mucilage.** A. G. Renfrew and L. H. Cretcher, 1932, 659.
- seed oil.** W. H. Dickhart, 1932, 530.
- seeds; Fatty oil from** —. A. Steger and J. Van Loon, 1934, 185.
- Quinhydrone cell for rapid work; A simple, inexpensive** —. J. G. Davis, 1931, 449.
- electrode as means of determining the hydrogen ion concentration of wine.** R. Dietzel and E. Rosenbaum, 1927, 600.
- electrode; Determination of acidity of oils and fats by the** — in non-aqueous solutions. H. Seltz and L. Silverman, 1930, 210.
- electrode; Determination of quinine, cinchonine and cinchonidine with the** — and the choice of end-points in alkaloidal titrations. E. B. R. Prideaux and F. T. Winfield, 1930, 561.
- electrode; Use of the** —. G. M. Moir, 1931, 445.
- Quinic Acid; Isolation of** — from fruits. E. F. Kohman and H. H. Sanborn, 1931, 323.
- Quinidine; Bromocresol purple as indicator for** —. 1926, 316.
- Gravimetric and volumetric determination of** —. R. Monnet, 1935, 708.
- Microchemical test for** —. 1934, 137.
- New colour reaction of** —. J. A. Sanchez, 1935, 184.
- Quinine; Ammoniated** — tablets. 1931, 655; (Legal Notes), 1935, 37.
- Ammoniated tincture of** —. 1930, 447; (Legal Notes), 1929, 418, 540.
- Quinine; Black currant and orange and** — wines. (Legal Notes), 1927, 283.
- Bromine as a reagent in determining** —. 1931, 714.
- Bromocresol purple as indicator for** —. 1926, 316.
- Determination of** —. J. R. Nicholls, 1934, 277.
- Determination of** — with the quinhydrone electrode, and the choice of end-points in alkaloidal titrations. E. B. R. Prideaux and F. T. Winfield, 1930, 561.
- determination; Rapid method for** —. G. A. Sticht, 1929, 607. Erratum, 1930, 53.
- excretion; Evaluation of** — by Mayer's reagent. 1934, 179.

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- Extraction of —. H. H. Bagnall, **1934**, 277.
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 Micro-detection of —. **1930**, 474.
 New colour reaction of — and its application
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 quantitative separation of pilocarpine from
 — by means of gallotannin; Experi-
 ments on. M. Nierenstein, **1932**, 94.
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- Quinine and Orange Wine** sold without a licence
 (Legal Notes), **1931**, 601.
- Quinine Iodobismuthate**: Behaviour of — with
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 solutions. M. Picon, **1935**, 704.
- Quinine Salts**: New reactions of —. Volum-
 etric method for determining the alkaloid.
 M. J. Papavassiliou and J. Georgiadés,
1932, 323.
- Quinine Sulphate**: Dispensing of —. (Legal
 Notes), **1935**, 173.
- Quinoline** as a microchemical reagent for some
 of the heavy metals. J. M. Korenman,
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- o-Quinone** test for cysteine. O. Baudisch and
 E. Dyer, **1933**, 171.
- Quinones**: Sensitive colour reaction for certain
 —. R. Craven, **1931**, 613.
- Quinosol**: Identification of —. G. H. Wage-
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- R Acid**: Separation of Crocein, Schäffer and G
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 R. B. Forster and C. M. Keyworth, **1927**,
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- Rabbit fur**; Characteristics of —. **1929**, 695.
- Rabbits**: Determination of hippuric acid and
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 in —. W. H. Griffith, **1926**, 528.
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 Yellowing of abdominal fat of frozen —.
 J. R. Vickery, **1932**, 520.
- Rachitic** and irradiated rachitic diets; Inorganic
 blood phosphorus and bone ash in rats fed
 on normal, —. R. A. Dutcher, M.
 Creighton and H. A. Rothrock, **1926**, 206.
- Rachitogenic** rations; Variation in the phosphorus
 content of maize meal used in —. W. L.
 Davies, **1934**, 340.
- Racoon fur**; Characteristics of —. **1929**, 696.
- Radiant Energy**: Physiological Effects of —.
 (Review), H. Laurens, **1934**, 142.
- Radiation** in Chemistry. (Review), R. A.
 Morton, **1928**, 560.
 Photo-chemical method of testing sources of
 ultra-violet —. F. C. Hymas, **1929**, 622.
 Standards of total —. **1933**, 404.
 Ultra-violet — of essential oils. C. P.
 Wimmer and M. H. Kennedy, **1930**, 468.

- Radiator heads**; Internal corrosion of aluminium
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- Radioactive** substances; Investigation of —.
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- Radioactivity** of musts and wines. E. Canals
 and A. Médaille, **1932**, 592; **1933**, 644.
 of wines. A. Nodon and G. Cuvier, **1928**,
 675.
- Radio-Elements** as indicators. F. Paneth, **1928**,
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- Radiography** as means of determining the
 digestibility of common foodstuffs. W. C. D.
 Maile and K. J. L. Scott, **1935**, 192.
- Radiometrische** und Spektroskopische Analyse.
 (Review), G. Scheibe, H. Mark and R.
 Ehrenberg, **1935**, 63.
- Radiometry**: Solar ultra-violet —. I, Ultra-
 violet limit of sunlight. W. D. Fleming,
1933, 373.
- Radion Alfa**: A reputed remedy for malaria.
1929, 290.
- Radio-Sensitive** substances; Colour test for —.
 C. J. Bond, **1927**, 719.
- Radium**: Allfood with —. (Legal Notes),
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 R. B. Moore and T. De Vries, **1931**, 678.
 ointment; Misbranding of —. (Legal
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 Separation of mesothorium I and — from
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 E. R. Jette and W. West, **1927**, 406.
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 L. F. Curtiss, **1927**, 615.
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- Radium Chromate**: Fractional precipitation of
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- “Radoform”** (similar to Antiform). Relative
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- Radon**: Atomic weight of —. **1928**, 289;
1934, 547.
- Raffinose**: Clerget-invertase hydrolysis con-
 stants of sucrose and —. H. S. Paine
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- Rag Flock** from coconut fibre; Excess of soluble
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 from hessian; Excess of chlorine in —.
 (Legal Notes), **1935**, 469.
- Ragwort**: Means of destroying —. **1934**, 40.
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- Railings**: Lead in paints for —. **1935**, 41.
- Rain**: Nitrogen compounds in snow and —.
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- Raisin Wine**: Non-alcoholic —. (Legal Notes),
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- Raisins**: Boron compounds in —. **1929**, 16.
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- Rancid** butters and margarines; Reichert,
 Polenske and Kirschney values of —.
 G. D. Elseon, R. J. Taylor and P. Smith,
1931, 515.

- Rancidity** changes and the flavour of fats. C. R. Barncoat, 1931, 748.
- Golorimetric method for the quantitative measurement of —. M. Pyke, 1935, 515.
- in cacao butter; Kreis reaction as a method for detecting incipient —. T. H. Cooke; 1929, 411.
- in fats. 1931, 531.
- in fats from intact seeds and fruits; Detection of —. A. Niethammer, 1929, 548.
- in flours, semolinas and Italian pastes. J. Berlie, 1935, 181.
- in oils and fats; Determination of —. A. Taffel and C. Revis, 1931, 323.
- ketone —; Täufel and Thaler's reaction for. J. Pritzker and R. Jungkuz, 1934, 48.
- Kreis — reaction; Quantitative examination of the —. J. Pritzker and R. Jungkuz, 1929, 547.
- Kreis test for —. W. G. Powick, 1928, 387.
- of coconut oil produced by mould action. W. N. Stokoe, 1928, 296.
- of fats determined by Stamm's reaction. S. Korpáczy, 1934, 183.
- of fats due to auto-oxidation. VI, Technique and evaluation of the Kreis reaction. K. Täufel and P. Sadler, 1934, 353.
- of fats; Tests for incipient —. W. L. Davies, 1928, 498.
- of oils and fats; Taffel and Revis method for estimating —. J. K. Giles, 1934, 48.
- Oleic acid — of fats. K. Täufel and J. Müller, 1931, 259.
- Photochemical studies of —. N. R. Coe and J. A. Le Clerc, 1934, 354.
- reaction of fats. P. Bruère and A. Fourmont, 1932, 319.
- Susceptibility of fats to oxidative —. D. P. Grettie and R. C. Newton, 1931, 749.
- Rape Oil:** Adulteration of —. 1930, 393.
- Component fatty acids of glycerides of partly hydrogenated —. T. P. Hilditch and H. Paul, 1935, 839.
- Composition of German —. K. Täufel and C. Bauschinger, 1929, 187.
- Glycerides of —. K. Täufel and C. Bauschinger, 1929, 187.
- Iodine value of —. 1933, 525.
- "Raptic acid" and other acids of —. T. P. Hilditch, T. Riley and N. L. Vidyarthi, 1928, 109.
- Solubility of — in alcohol of varying concentrations. K. Hashi, 1931, 325.
- Rapeseed Oil:** Barium value of —. 1928, 173.
- Composition of —. T. P. Hilditch, T. Riley and N. L. Vidyarthi, 1928, 108.
- direct identification of — by isolation of erucic acid; Method for. A. W. Thomas and M. Mattikow, 1926, 315.
- Modified elaidin test for —. 1934, 315.
- "Raptic Acid" of rape and mustard-seed oils. T. P. Hilditch, T. Riley and N. L. Vidyarthi, 1928, 109.
- Rare Earths:** Fractional precipitation of — by electrolysis. J. W. Neckers and H. C. Kremers, 1928, 355.
- New method of quantitative analysis applicable to a mixture of the —. E. Delauney, 1927, 614.
- Rare Earths—continued.**
- Reaction of "aluminon" with hydroxides of beryllium, zirconium, thorium and —. A. R. Middleton, 1926, 537.
- Separation of ceria from other —. J. W. Neckers and H. C. Kremers, 1928, 355.
- Separation of gallium —. 1930, 218.
- Rarer Elements:** Japanese minerals containing —. Analysis of beryl from Iwaki Province. T. Uemura, 1928, 674.
- Rask's Method** for starch in cereal products. 1931, 185.
- Raspberries:** Analyses of —. 1934, 236; L. H. Lampitt and E. B. Hughes, 1928, 33.
- Changes in — after picking. T. Rendle, 1933, 69.
- Composition of —. T. Macara, 1935, 592; of fresh —. 1927, 351.
- Refractometric investigation of juice of —. 1926, 41.
- Vitamin content of —. 1931, 548.
- Raspberry jam;** Analysis of —. 1934, 241; of Canadian —. 1930, 392.
- jam; Apple matter in —. A question of warranty. (Legal Notes), 1927, 533.
- jam deficient in — fruit. (Legal Notes), 1927, 283.
- jam; Ginglyly (sesame) seeds in —. (Legal Notes), 1931, 809.
- jam, with declaration of added fruit juice. (Legal Notes), 1927, 535.
- juice; Refractometric studies on —. 1931, 461.
- pulp; Composition of —. 1927, 352.
- Rat:** Breeding and Care of the Albino — for Research Purposes. 2nd Ed. (Review), M. N. Greenman and F. L. Duhring, 1932, 680.
- Destruction; Practical Handbook of —. (Review), C. L. Claremont, 1926, 378.
- Excretion and absorption of aluminium in the —. K. Mackenzie, 1931, 470.
- poison; Gravimetric determination of thallium in —. W. Lepper, 1930, 217.
- poisons; Thallium in —. 1931, 268.
- viscera; Extraction of aloes from —. 1933, 521.
- Rat Liver Oils:** Transformation of carotene into vitamin A as shown by a study of the absorption spectra of —. N. S. Capper, 1930, 710.
- Ratfish Liver Oil** as a source of vitamin A. E. R. Norris and I. S. Danielson, 1930, 206.
- Examination of unsaponifiable matter from —. 1935, 387.
- Rats** fed on normal, rachitic and irradiated rachitic diets; Inorganic blood phosphorus and bone ash in —. R. A. Dutcher, M. Creighton and H. A. Rothrock, 1926, 206.
- Feeding of — exclusively with various kinds of bread. E. Friedberger and E. Seidenberg, 1928, 49.
- Influence of administration of aluminium upon aluminium content of the tissues, and upon growth and reproduction of —. V. C. Myers and J. W. Mull, 1928, 547.
- Rate of catabolism of arginine in —. V. C. Kiech, J. M. Luck and A. E. Smith, 1931, 327.

- Ravison Rape Seed:** Differentiation of black mustard seed and —. Vizard and Guillot, **1926**, 262.
- Ravison Seed Oil:** Composition of —. T. P. Hilditch, T. Riley and N. L. Vidyarthi, **1928**, 108.
- γ -Ray radiations;** Influence of intense X-ray and — on cholesterol. M. C. Reinhard and K. W. Buchwald, **1927**, 485.
- X-Ray:** See **X-Rays**.
- Rayon:** (artificial silk); Identification of —. W. D. Grier, **1929**, 364.
- metals in —; Micro-determination of. B. P. Ridge, M. Corner and H. S. Cliff, **1933**, 721.
- yarns; Chemical properties of some commercial —. B. P. Ridge, H. L. Parsons and M. Corner, **1931**, 270.
- See also **Artificial Silk**.
- Rays:** Invisible — in the Service of Criminology. (Review), G. Kögel, **1930**, 422.
- Röntgen —. See **X-Rays**.
- Ultra-violet. See **Ultra-Violet**.
- X —. See **X-Rays**.
- Reactions:** Chemical — and volumetric titrations in Wood's light. R. Mellet and M. A. Bischoff, **1926**, 480.
- Reagent Chemicals;** Standards and Tests for "C.P." and —. (Review), B. L. Murray, **1928**, 563.
- Grignard —; Magnesium for —. N. W. Cusa and F. S. Kipping, **1934**, 713.
- papers; Sensitiveness of some — towards gaseous hydrogen phosphide. M. Wilmet, **1927**, 487.
- Shaffer-Hartmann micro sugar —; Effect of potassium iodide in the. W. A. de Long, **1927**, 350.
- Reagent(s) and Culture Media.** (Review), E. Böhm and K. R. Dietrich, **1928**, 186. Erratum, **1928**, 241.
- Benzidine and tolidine as — in analysis. R. G. Harry and E. A. Rudge, **1932**, 334.
- Butylphenylarsonic acid as — for the gravimetric determination of iron. K. A. Craig and G. C. Chandlee, **1934**, 571.
- for alcohols; Anthraquinone- β -carboxylic acid chloride as —. T. Reichstein, **1926**, 643.
- for alcohols; α -Naphthyl isocyanate as —. T. Bickel and H. E. French, **1926**, 263.
- for aldehydes and ketones; Use of 2:4 dinitrophenylhydrazine as —. O. L. Brady and G. V. Elsmie, **1926**, 77.
- for alkaloids, etc.; Beta-anthraquinone-monosulphonic acid as microchemical —. L. Rosenthaler, **1929**, 351.
- for blood; Pyramidon as —. M. Elzas and L. M. Lansberg, **1927**, 167.
- for boric acid determinations; Invert sugar as —. J. A. M. Van Liempt, **1926**, 293; G. van B. Gilmour, **1926**, 404.
- for calcium; Composite —. G. J. Cox and M. L. Dodds, **1932**, 801.
- for detecting aluminium; Cerium sulphate as confirmatory —. H. Yagoda and H. M. Partridge, **1930**, 716.
- for detecting cobalt; Potassium cyanate as —. B. J. F. Dorrington and A. M. Ward, **1929**, 327.
- Reagent(s) — continued.**
- for detecting organic compounds. E. E. Egrive, I, **1932**, 584; III, **1935**, 189.
- for detecting oxycellulose; New —. W. F. A. Ermen, **1928**, 670.
- for detecting potassium; Zirconium sulphate as —. R. D. Reed and J. R. Withrow, **1929**, 456.
- for determining haemoglobin in blood; Improved —. F. C. Bing, **1932**, 329.
- for diazotisation; Nitrogen tetroxide as —. B. Houston and T. B. Johnson, **1926**, 102.
- for differentiating between ammonium salts, amines and amides; Iodine as —. J. A. Sanchez, **1927**, 363.
- for earth acids; Digallic acid as —. W. R. Schoeller, **1927**, 702.
- for hydrazines and analogous compounds. E. Montignie, **1932**, 330.
- for identifying organic acids; *p*-phenylphenacyl bromide as a —. N. L. Drake and J. Bronitsky, **1930**, 713.
- for living plants; Benzidine as —. C. Rouppert, **1926**, 259.
- for magnesium in the micro-chemistry of plants; Titan yellow as —. H. Eilers, **1928**, 239.
- for mercury; Glycerin as —. M. Stschigol, **1934**, 433.
- for metals; Organic —. **1933**, 126.
- for nitrites in water. M. S. Vergnoux, **1930**, 151.
- for oil extracted by carbon disulphide, and identification of olive oil extracted by solvents. S. Fachini, **1926**, 636.
- for phenols and aliphatic amines; α -Naphthyl isocyanate as —. H. E. French and A. F. Wirtel, **1926**, 472.
- for polyphenols and vitamins; Rapid preparation of mono-molybdophosphotungstic acid as —. N. Bezssonoff, **1926**, 358.
- for rapid gravimetric determination of sodium; Specific —. H. H. Barber and I. M. Koltthoff, **1928**, 456.
- for Spot Tests; B.D.H. —. (Review), **1933**, 64; 3rd Ed., **1934**, 584; 4th Ed., **1935**, 504.
- for the enolic form; New general —. E. V. Zappi, **1932**, 330.
- for titanium; Gallic acid as —. P. N. Das-Gupta, **1930**, 294.
- for zinc; Diphenylamine as quantitative —. W. H. Cone and L. L. Cady, **1927**, 730.
- Organic — in qualitative analysis. II, L. Lehrman, H. Weisberg and E. A. Kabat, **1934**, 844.
- Phosphoric ion as sensitive —. Differentiation of antimony and tin. T. G. Y. Arnal, **1929**, 256.
- Quinaldic acid as analytical —. P. Rây and A. K. Majundar, **1935**, 494.
- Quinine as — for amines. M. Foucry, **1934**, 713.
- Sodium alizarinsulphonate as —. F. G. Germuth and C. Mitchell, **1929**, 308.
- Tannin as — for tantalum, niobium and titanium. **1932**, 551.
- Tests using organic —; Effect on the sensitiveness of increasing the size of the molecule. J. V. Tamchyna, **1932**, 127.

Reagent(s)—*continued.*

- **Tetra**phthalimide as — in qualitative organic analysis. C. F. H. Allen and R. V. V. Nichols, **1934**, 570.
- Thioacetic acid as — for determining the inorganic iron content of biological materials. S. L. Tompsett, **1934**, 835.
- Thionylaniline as organic —, and its use for identifying acids as anilides. B. Carré and D. Libermann, **1932**, 537.
- Receipt Stamps**: Proof of fraud by means of —. **1931**, 668.
- Red Box**: Identification of —. **1932**, 102.
- Red Currant**: Oil from seeds of —. A. Jermstad, **1931**, 324.
- pulp; Composition of —. **1927**, 352.
- Red Currants**: Analyses of —. L. H. Lampitt and E. B. Hughes, **1928**, 33.
- Boron compounds in —. **1929**, 17.
- Composition of fresh —. **1927**, 351.
- Red formations**; The colour of —. G. E. Dorsey, **1926**, 363.
- Red Glaze**: Lead in —. A. Gronover and E. Wohnlich, **1929**, 552.
- Red Gum**: Identification of —. **1932**, 102.
- Red Lead**: Analysis of —. N. Busvold, **1932**, 268.
- Red Phosphorus**: Analysis of —. S. A. Tolkatschoff and M. A. Portnoff, **1930**, 768.
- yellow phosphorus in —; Determination of very small amounts of. R. H. Kray, **1927**, 605.
- Reducing agent**; Vanadous sulphate as —. A. S. Russell, **1926**, 267; as a volumetric —. P. C. Banerjee, **1935**, 573.
- equivalent for some rare sugars as determined by colorimetric methods. C. F. Poe and D. Klemme, **1930**, 452.
- powers of different sugars for the ferricyanide reagent used in the gasometric sugar method. J. A. Hawkins, **1929**, 749.
- sugars. See **Sugars**.
- substance in different fruits and vegetables; Content of —. J. Tillmans, P. Hirsch, and J. Jackisch, **1932**, 396.
- substances; Effect of other — on the determination of sulphur dioxide. J. W. Black and B. J. W. Warren, **1928**, 130.
- substances in lemon juice; Reversibility of the oxidation of —. J. Tillmans, P. Hirsch and H. Dick, **1932**, 397.
- sulphur acids; Analysis of —. E. Cherbuliez and H. Herzenstein, **1935**, 121.
- Reductase test**; Methylene blue for the milk —. D. W. Steuart, **1928**, 532.
- test; Stale milk and the —. (Legal Notes), **1926**, 458.
- test; Substitution of Janus Green for methylene blue in the —. L. Soep, **1928**, 106; A. R. Tankard, **1928**, 213.
- tests; Comparison of —. M. Lerner, **1930**, 199.
- Reduction**: Atomic Structure as modified by Oxidation and —. (Review), W. C. Reynolds, **1928**, 676.
- indicator; Use of 2,6-dichlorophenol indophenol as — in the examination of foodstuffs. J. Tillmans, P. Hirsch and E. Reinshagen, **1929**, 176.
- **Refraction** of milks low in solids-not-fat. G. D. Elsdon and J. R. Stubbs, **1929**, 318.
- Refractive Index** determinations; Immersion liquids for —. A. Mayrhofer, **1932**, 65.
- of egg white; Changes with age of the —. J. C. Baird and J. H. Prentice, **1930**, 20.
- of perilla oil. C. A. Lathrap, **1932**, 661.
- Refractometer**: Analysis of mixtures of aliphatic nitrates by means of the —. W. H. Rinckenbach, **1928**, 61.
- Immersion — and its value in milk analysis. G. D. Elsdon and J. R. Stubbs, **1927**, 193.
- Immersion — as means of determining the concentration of dilute glue liquors. A. C. Hart, **1928**, 615.
- Immersion; Determination of the concentration of liquid soaps by the. L. F. Hoyt and A. Verwiebe, **1926**, 427.
- in milk analysis; Further work on —. G. D. Elsdon and J. R. Stubbs, **1930**, 618.
- Refractometric** determination of alcohols and esters in aqueous and in cottonseed oil solutions. J. C. Munch, **1926**, 314.
- determination of fat in oil seeds and oil cake. H. Zander, **1926**, 592.
- Refraktometrische** Untersuchung der Milch. (Review), E. Reiss, **1929**, 127.
- Refractometry** as an aid to the investigation of fruit juices. H. Eckart, **1926**, 40.
- Refrigerants**: Specific volumes of —. **1930**, 512.
- Refrigerated** gas-storage of apples. F. Kidd and C. West, **1935**, 757.
- Refrigeration** changes in meat. T. Moran, **1935**, 485.
- Engineering problems in —. **1926**, 144.
- Refuse**: Fatalities due to vitiated air produced by oxidation of vegetable —. A. R. Tankard and D. J. T. Bagnall, **1930**, 673.
- Reichert** figures for butter analysis; Relations of the Manley and —. H. S. Shrewsbury, **1927**, 388.
- Value of rancid butters and margarines. G. D. Elsdon, R. J. Taylor and P. Smith, **1931**, 515.
- Reichert-Meissl** value; Cheshire butters and cheeses of low —. H. Lowe, **1928**, 89.
- value of the fat in Gorgonzola cheese. R. C. H. Johnson, **1933**, 469.
- value; Phytosteryl acetate test as a routine method in the examination of butter fats with border-line —. H. Hawley, **1933**, 529.
- values; Fall in — on keeping butter samples. P. Arup, **1929**, 736.
- Reif's Colour Reaction** for detecting benzylidenesorbitol. H. Kreipe, **1934**, 420.
- Reindeer** fat; American —. W. F. Baughman, G. S. Jamieson and R. S. McKinney, **1929**, 605.
- Reinsch** antimony films; Solubility of — in water. S. G. Clarke, **1929**, 99.
- test; Historical notes on the —. H. Leffmann, **1930**, 684.
- Rennet**: Boric acid in essence of —. **1935**, 403.
- Effect of heat on coagulability by —. E. C. V. Mattick and H. S. Hallett, **1929**, 557.

- Rennin** and pepsin activities of the gastric secretion of different animals; Comparison of —. H. Holter and B. Andersen, **1935**, 110.
- coagulation of milk. Effect of hirudin, of heparin, of cephalin and of fat removal. J. B. Stone and C. L. Alsberg, **1923**, 503.
- Resazurin** as means of detecting hydrosulphite and nascent hydrogen. H. Eichler, **1935**, 121.
- Research**: Breeding and Care of the Albino Rat for Purposes of —. 2nd Edition. (Review), **1932**, 680.
- Commission on Pure Substances for —, **1923**, 41.
- Resin acids**; Sensitive reaction for colophony or —. F. Michel, **1930**, 343.
- hemp-; Physiological activity of — determined by a polarimetric method. M. N. Ghose and S. N. Bhattacharjee, **1935**, 313.
- of podophyllum; Assay of tablets of —. L. E. Warren, **1931**, 752.
- oleo — of Indian valerian root; Chemical constituents of the fatty matter and. K. Bullock, **1926**, 525.
- Resinous** materials; Ancient Egyptian —, **1926**, 444.
- Resins**: Allen's Commercial Organic Analysis. Vol. IV, **1926**, 320.
- Artificial — as containers for drugs. P. Pinten, **1935**, 769.
- Coniferyl reaction of —. F. Reinitzer, **1926**, 644.
- Detection of — by Brauer's method. E. Fonrobert and K. Pistor, **1927**, 247.
- Detection of —, especially in linseed oil varnishes. K. Brauer, **1926**, 422.
- Drying rates of synthetic — with drying oils. C. A. Thomas and P. E. Marling, **1932**, 668.
- in coal, **1931**, 333.
- in hops, **1931**, 261.
- in hops; Colorimetric method for determining soft —. J. M. Guthrie and G. G. Philip, **1930**, 703.
- in tobacco smoke; Occurrence of —. A. Wenusch, **1935**, 260.
- Natural and Synthetic —. (Review), T. H. Barry, A. A. Drummond and R. S. Morrell, **1927**, 56.
- Natural Varnish —. (Review), T. H. Barry, **1934**, 308.
- Synthetic —, **1928**, 223; **1935**, 176, 614.
- Resorcinol**: Analytical applications of the reaction of ammonia on — in the presence of cations. L. Bey, **1931**, 62.
- reaction as means of distinguishing between aldohexoses and ketohexoses. C. Sampietro and K. Täufel, **1933**, 360.
- Reaction of — and a new coloured indicator. L. Bey and M. Faillebin, **1929**, 561.
- Resorufin** as fluorescence indicator. **1933**, 722.
- as means of detecting cations. H. Eichler, **1934**, 300.
- as means of detecting chlorine and bromine in gases or solutions. H. Eichler, **1935**, 121.
- as means of detecting diazonium salts and primary amines. H. Eichler, **1935**, 190.
- Resorufin**—*continued*.
- Detection of nitrobenzene and of phenol by formation of —. H. Eichler, **1934**, 297.
- Respiration** apparatus; Acetone as a control substance for —. T. M. Carpenter, E. L. Fox and A. F. Serque, **1929**, 427.
- Respirators**: Industrial —. **1935**, 177.
- Respiratory** air; Oxygen and carbon dioxide limits in —. A. Grögli, **1926**, 256.
- Restaurants**: Adulterated food in —. (Legal Notes), **1926**, 630.
- Reviews of Books**: See **Book Reviews**.
- Revis and Payne** method of determining sucrose in sweetened condensed milk. Modification of —. **1926**, 496.
- Rhamnigenol** and primeverose, the products of enzymic hydrolysis of rhamnucoside. M. Budel and C. Charaux, **1926**, 41.
- Rhamnucoside**: Primeverose and rhamnigenol, the products of enzymic hydrolysis of —. M. Budel and C. Charaux, **1926**, 41.
- Rhamnose**: Colorimetric determination of —. R. A. McCance, **1930**, 285.
- Rhapontic** rhubarb; Fluorescence and detection of —. T. E. Wallis and E. R. Withell, **1934**, 652; **1935**, 126.
- Rhenium**: Atomic weight of —. **1929**, 296; **1931**, 538; **1934**, 547.
- Colour reactions of —. B. Tougarinoff, **1934**, 435.
- Determination of —. E. Kronmann, **1932**, 739.
- Separation of — from molybdenum. J. H. Müller and W. A. La Laude, **1933**, 499.
- Toxicity tests with —. L. C. Hurd, J. K. Colehour and P. P. Cohen, **1934**, 641.
- Volumetric determination of —. J. G. F. Druce, **1933**, 55.
- Rhizopin**: Effect of — on the growth of *Aspergillus niger*. N. Nielson, **1932**, 190.
- Rhodamine**: Reactions of — with nitrous acid. **1927**, 492.
- Rhodinols**: Colour reaction of some commercial —. S. Sabetay, **1933**, 418.
- Rhodium**: Adsorption of — in platinum ore analysis. **1926**, 394.
- Atomic weight of —. **1928**, 160, 289; **1929**, 295; **1934**, 547.
- Reagents for —. **1935**, 782.
- Separation and determination of —. L. Moser and H. Graber, **1932**, 195.
- Rhodizonic Acid** as an indicator in the volumetric determination of barium. A. Friedrich and S. Rapoport, **1934**, 439.
- Rhubarb**: Action of calcined magnesia in preventing solution of soluble matter in —. **1926**, 295.
- Examination of — by ultra-violet light. A. Castiglione, **1933**, 249.
- Fluorescence and detection of rhapontic —. T. E. Wallis and E. R. Withell, **1934**, 652; **1935**, 126.
- Identification and determination of value of —, based on fluorescence. —. Maheu, **1929**, 478.
- Quantitative determination of some of the constituents of —. P. Valaer, **1931**, 817.
- Ribes Rubrum** L. Oil from seeds of — (red currant). A. Jermstad, **1931**, 324

- Rice**: Alcohol-soluble protein isolated from polished —. W. F. Hoffman, 1926, 205.
 assay of — for anti-beriberi vitamin content; Colorimetric method for. J. P. Spruyt, 1930, 460.
 bran. 1933, 347.
 bran extracts; Chemical and biological analyses of —. A. J. Hermano and F. Anido, 1933, 356.
 brañ; Nitrogen distribution and carbohydrate partition in Philippine —. J. Maraño and L. Cosme, 1935, 827.
 Ceylon —; Study of. 1930, 128.
 evaporation of moisture from flour and —; Alleged. (Legal Notes), 1928, 534.
 flour in other flours and spices; Detection and determination of —. M. Wagenaar, 1928, 100.
 flour in shredded suet. (Legal Notes), 1927, 281.
 husks in bran and sharps. A. J. Amos, 1929, 332.
 Iodine absorption value of —. 1927, 89.
 koji; Vitamin B content of polished —. R. Takata, 1929, 558.
 Manganese in —. 1929, 348.
 Moinascin, a colouring matter from "red" —. H. Salomon and P. Karrer, 1932, 254.
 Polished —. 1931, 456.
 Polishing. Studies in Vitamin B₁; Concentration from —. I. A. Simpson, 1931, 698.
 polishings; Extract of —. 1932, 41.
 preparations; Analyses of —. 1931, 536.
 Scleroticum disease of —. 1933, 347.
 Standard for beriberi-preventing —. E. B. Vedder and R. T. Feliciano, 1928, 542.
 Starch determined in —. E. H. Hall, 1932, 41.
 starch; Fatty acids associated with —. L. Lehman, 1929, 548.
 starch; Iodine method for determining —. 1934, 678.
 starch; Manganese in —. 1929, 348.
 "toxin"; Beriberi and —. 1929, 291.
 U.S.A. Food Inspection Decision No. 208. 1927, 547.
Rice Oil: Chemical composition of —. G. S. Jamieson, 1926, 583.
 Philippine —. (Ramai variety). A. O. Cruz, A. P. West and V. B. Aragon, 1932, 466.
Richter's Organic Chemistry. Vol. I, Chemistry of the Aliphatic Series. Translated by E. N. Allott, 1934, 653.
Ricinoleic Acid: Halogen absorption of —. 1929, 446.
Rickets: Therapeutic value of irradiated milk in the treatment of —. C. Watson, T. Y. Finlay and J. B. King, 1929, 673.
Rideal-Walker method of testing disinfectants. Q. Moore, 1927, 98.
Rider: Analytical balance without —. A. Wirth, 1928, 482.
Ridsdale method for determining phosphoric acid; Modification of —. A. S. Dodd, 1928, 976.
Ridsdale—continued.
 modification of Pemberton's method for volumetric determination of phosphoric anhydride; Application of — to fertilisers. A. M. Cameron and W. T. Dow, 1927, 576.
Riegel's "new preservative for pumpnickel"; Detection of —. P. Weinstein, J. Muesmann and W. Bodschinwa, 1931, 542.
Rinnmann's Green Test for zinc. A. A. Benedetti-Pichler, 1932, 673.
"Rivanol": Use of — for determining nitrites. 1931, 325.
River: Pollution of a — with colliery by-products. Mawston v. Pease and Partners. (Legal Notes), 1927, 475.
River water; Phenols determined in —. Nolte, 1933, 713.
 water; Viability of intestinal pathogenic bacteria in —. 1929, 291.
River Tees: Survey of —. 1930, 510; 1931, 107; 1934, 282.
Roach powder; Analysis of mysterious —. 1927, 538.
Road construction; Analysis of asphalt, bitumen and tar materials used for —. D. M. Wilson, 1935, 117.
 Making and Administration. (Review), P. E. Spielmann and E. J. Elford, 1934, 853.
 materials; "Brittle-point" of bituminous —. W. E. Golding and F. M. Potter, 1934, 780.
 Research Board report. 1935, 176.
 surfaces; Extraction apparatus for bituminous —. F. J. Nellensteyn, 1930, 300.
See also List of Errata.
 tars; Experiments on —. 1935, 614.
Rock analysis; Determination of small quantities of nickel in —. H. F. Harwood and L. S. Theobald, 1933, 673.
 beryllium in —; Detection of. G. Rienäcker, 1932, 405.
 beryllium in —; Determination of small quantities of. B. E. Dixon, 1929, 268.
 boron in —; Tests for. 1934, 721.
 carbon in —; Determination of. B. E. Dixon, 1934, 739.
 Chemical Analysis of —. 4th Ed. (Review), H. S. Washington, 1931, 278.
 fluorine in —; Detection of traces of. I. P. Alimarin, 1930, 652.
 lead in —; Determination of. G. von Hevesy and R. Hobbie, 1932, 404.
 silica in coal-measure —. Determination of. A. Shaw, 1934, 446; L. R. L. Dunn, 1935, 35.
Romijn's formaldehyde titration. R. Signer, 1930, 208.
Röntgen rays. *See* X-Rays.
Röntgenspektrographie als Untersuchungsmethode. (Review), J. R. Katz, 1935, 203.
Röntgenstrahlen: Praktikum der Chemischen Analyse mit —. G. von Hevesy and E. Alexander, 1933, 652.
Root Ginger: 1931, 741.
Roots: carotene from certain — at various stages of development; Properties of. G. MacKinney, 1935, 195.
"Rope" spore content of flour and its significance. A. J. Amos and D. W. Kent-Jones, 1931, 572.

- Ropes**: Treatment against decay. 1935, 614.
- Ropiness**: "Apparent ——" (thread formation) in milk due to surface influence. A. T. R. Mattick, 1926, 527.
- Rose Flower wax**: H. Prophète, 1927, 102.
- Rosemary Oil** as anti-ferment. 1928, 612.
- Rosenheim and Drummond Method** of determining vitamin A in cod-liver oil; Comparison between the biological method and the colorimetric (—). 1928, 156.
- Rosenmund-Kuhnhehn Method**: Iodine values of linolenic, linolic and stearolic acids by —. Y. Toyama and T. Tutiya, 1935, 334.
- Rosin**: Acid value of scammony resin as a test for —. C. E. Corfield and W. R. Rankin, 1931, 673.
- Rosinduline** as oxidation-reduction indicator. L. Michaelis, 1931, 415.
- Rosolic Acid** in foodstuffs; Detection of —. 1927, 585.
- Rotenolone**: Study of the toxicity of —, using the goldfish as test animal. W. A. Gersdorff, 1933, 297.
- Rotenone** as constituent of derris root. 1928, 597.
Chemical evaluation of plant material containing —. P. A. Rowaan, 1935, 483.
Colorimetric method for determining —. C. R. Gross and C. M. Smith, 1934, 567.
content of *Derris uliginosa*. 1932, 782.
derivatives; Quantitative relationship between the constitution and toxicity of some —. W. A. Gersdorff, 1935, 715.
in derris root and resin; Determination of —. R. S. Cahn and J. J. Boam, 1935, 261.
Oxidation of — by copper in an alkaline medium. R. M. Whittaker and I. Glickmann, 1935, 188.
- Rotenone Hydrochloride**: Study of toxicity of —, using the goldfish as test animal. W. A. Gersdorff, 1933, 297.
- Rotherhithe Tunnel**: Ventilation of —. C. J. Regan, 1932, 341.
- Rouge**: Substitutes for —. 1933, 406.
- Rubber**: Absorption of water by —. 1933, 229.
and its uses in Building Works. (Review), H. P. Stevens, 1926, 434.
Asphyxiation by wet —. 1930, 754.
copper in materials containing —; Determination of —. F. Kirchof, 1932, 473.
Extraction apparatus for —. W. H. Stevens, 1931, 528.
Filters made of porous hard —. E. Vossen, 1931, 558.
free sulphur in —; Volumetric determination of —. J. A. Robertson and J. Young, 1933, 778; A. F. Hardman and H. E. Barbehenn, 1935, 337.
hosing, containing antimony pentasulphide, for use in the food industries; Evaluation of —. II, B. Bleyer and E. Spiegelberg, 1933, 353.
hydrocarbon in raw —, gutta-percha and allied substances; Determination of —. A. R. Kemp, 1927, 362.
hydrocarbons; Reactions of — with metallic halides. H. A. Bruson, L. B. Sebrell and W. C. Calvert, 1927, 728.
- **Rubber**—*continued*.
in Chemical Engineering. H. P. Stevens and M. B. Donald, 1933, 730.
in soft vulcanised —; Direct determination of —. A. R. Kemp, W. S. Bishop and T. U. Lackner, 1928, 399.
Manufacture; Chemistry of —. (Review), L. E. Weber, 1926, 433.
moisture in raw —; Determination of —. D. Armstrong and T. J. Drakeley, 1927, 338.
Nature of matured —. II, G. Bruni and T. G. Levi, 1927, 491.
Physical and Chemical Properties. (Review), T. R. Dawson and B. D. Porritt, 1935, 857.
Pitting of copper in contact with kerosene and —. 1935, 103.
Science; Handbook of —. (Review), K. Memmler and Others. 1931, 71; 1935, 347.
sulphur in —; Perchloric acid method of determining —. E. Wolessky, 1929, 61.
Synthetic —. (Review), S. P. Schotz, 1926, 653.
vulcanised-; Direct determination of rubber in soft —. A. B. Kemp, W. S. Bishop and T. U. Lackner, 1928, 399.
Unvulcanised-; Calender Effect and Shrinking Effect of —. (Review), W. de Visser, 1927, 256.
- Rubber-seed Oil** and the elaidin test. 1934, 315.
Crystalline bromides of Para —. 1926, 390.
Halogen absorption of —. 1929, 446.
Pyrolysis of —. 1931, 61.
- Rubidium**: Analytical chemistry of caesium and —. W. Strecker and F. O'Driscoll, 1926, 162.
Analytical reactions of caesium and —. W. J. O'Leary and J. Papish, 1934, 436.
Atomic weight of —. 1928, 160; 1929, 295; 1934, 547.
Detection of —. P. Robin, 1934, 61.
Determination of —, especially in mineral waters. L. Fresenius, 1931, 834.
Determination of small quantities of —. E. Burkser, W. L. Milgewska and R. W. Feldmann, 1930, 465.
Influence of — upon the detection of potassium by zirconium sulphate. R. D. Reed and J. R. Withrow, 1929, 370.
Separation of caesium, potassium and —. L. Moser and E. Ritschel, 1928, 459.
- Rubidium Ion**: Reagent for —. T. G. Y. Arnal, 1929, 369.
- Rukota** poultry food, 1933, 481.
- Rum** and butter toffee. • (Legal Notes), 1928, 93.
and coffee. (Legal Notes), 1930, 327; Sample of —. 1928, 647.
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in "special coffee," 1935, 687.
Strength of —. (Legal Notes), 1930, 126; • in Jersey, 1935, 405.
- Rupp's Method** for determining mercuric chloride. H. Brindle, 1932, 737.
- Ruthenium**: Atomic weight of —. 1928, 160; 1929, 295; 1934, 544.
Gravimetric determination of —. R. Gilchrist, 1930, 410.

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- Reagents for —. 1935, 782.
- Study of —. IX, Solubility of — in hypochlorite solutions, and an attempt to utilise the reaction for the determination of the metal. J. L. Howe and F. N. Mercer, 1926, 109.
- Rye:** alkaloids of ergot of —; Reaction for. H. W. Van Urk, 1929, 479;
- Alkaloids of ergot of —; Reaction for. Examination and colorimetric determination of — alkaloid preparations. H. W. Van Urk, 1929, 479.
- ergot of —; Identification and determination of. A. Tschirch, 1927, 238.
- ergot of —; Vitamin D in. E. Mellanby, E. Surie and D. C. Harrison, 1929, 766.
- flour; Detection of wheat and — in mixtures by the trifructosan-content. H. Werner and H. Volger, 1935, 702.
- flour in wheat and other flours; Detection of —. J. Tillmans, 1929, 43; P. Rudolph and H. Barsch, 1932, 177.
- flour; New carbohydrate in. —. J. Tillmans, 1929, 43.
- germs; Essential oil from —. 1931, 257.
- Gliadins of —. H. Kühl, 1933, 355.
- Iodine absorption value of —. 1927, 89.
- plant; Non-volatile organic acids in —. E. K. Nelson and H. H. Mottern, 1931, 672.
- preparations; Analyses of —. 1931, 536.
- Rye Germ Oil:** A. W. Stout and H. A. Schuette, 1932, 659.
- Rye-grass Seed** examined by ultra-violet light. L. François, 1934, 306.
- Rye Oil:** Formation of volatile fatty acids on exposure of — to the atmosphere. S. C. L. Gerritzen and M. Kauffman, 1933, 99.
- Investigation of —. J. W. Croxford, 1930, 735.
- Properties as affected by choice of solvent. A. W. Stout, H. A. Schuette and R. G. Fischer, 1934, 187.

S

- Sable fur;** Characteristics of —. 1929, 696.
- Saccharate** solutions; Alkali earth metals in — and their use in alkalimetry. A. C. Shead, 1928, 237.
- solutions as means of determining calcium and magnesium in Dolomitic limestones. A. C. Shead and B. J. Heinrich, 1931, 65.
- Saccharides:** Nitro-chromic acid reaction for detecting primary and secondary alcohols, with special reference to —. W. R. Fearon and D. M. Mitchell, 1932, 372.
- Saccharimeter:** Standard scale for —. 1933, 150.
- Saccharin** content of foodstuffs and beverages, particularly of beer; Determination of —. J. E. Heesterman, 1932, 323.
- Conversion of — into ammonia. 1927, 381.
- Determination of —, colorimetrically and by the ammonia process. A. F. Lerrigo and A. L. Williams, 1927, 377.
- Distribution coefficients of —. 1927, 383.

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- Formula for determination of — by titration. O. Beyer, 1931, 606.
- in aerated waters. 1934, 755.
- in beer and other beverages; Detection of —. V. Stanek and P. Pavlas, 1934, 704.
- in food. 1932, 99.
- in grape flavour. (Legal Notes), 1927, 642.
- Microchemical reactions of —. M. Wagenaar, 1932, 592.
- Micro-copper-pyridine reaction for —. C. Van Zijp. J. L. L. Zwikker, 1934, 850.
- Sorbitol detected in presence of dulcin and —. G. Reif, 1934, 44.
- Saccharogenic** activity of honey; Effect of time of reaction and of pH on —. 1930, 669.
- Safety in Mines Research Board:** Laboratory methods of determining the inflammability of coal dust. (Paper No. 31.) A. L. Godbert, 1927, 713.
- On the ignition of fire-damp. (Paper No. 8.) H. F. Coward and R. V. Wheeler, 1926, 302.
- On the limits of inflammability of fire-damp and air. (Paper No. 15.) M. J. Burgess and R. V. Wheeler, 1926, 302.
- Safflower Oil:** American —. G. S. Jamieson and S. I. Gertler, 1929, 347.
- Saffron:** Adulteration of —. G. Pierlot, 1926, 41.
- Examination of — by means of ultra-violet light. A. Castiglione, 1933, 249.
- substitute in foodstuffs; Detection of —. 1927, 585.
- Safranine** as indicator for argentometry. 1930, 615, 617.
- Safrol:** Aromatic allyl and propenyl compounds. I, — and isosafrol. H. I. Waterman and R. Priester, 1928, 555.
- Toxic action of — on animals. G. A. Mallinson, 1926, 46.
- Sage:** Microscopical examination of —. 1934, 744.
- Volatile oil determined in —. 1934, 617.
- Sago:** Sale of tapioca as —. 1933, 96; 1934, 539.
- St. Helens:** Appointment of H. J. Evans as Agricultural Analyst for County Borough of —. 1930, 566; as Public Analyst for County Borough of —. 1930, 565.
- Sakae** seeds as anthelmintic. 1934, 754.
- Sakaguchi Reaction** for the quantitative determination of arginine. E. Jorpes and S. Thorén, 1933, 103.
- Sal Volatile:** Methylated spirit in —. (Legal Notes), 1934, 346.
- Salad Dressing:** Analyses of —. 1932, 171.
- Standard for mayonnaise —. 1929, 107.
- Sale:** Completion of a —. (Legal Notes), 1930, 326.
- Sale of Food and Drugs Acts:** Act to amend the Sale of Food and Drugs Acts, 1875–1907. 1928, 100.
- Administration of —. 1927, 187.
- Bell's —. 8th Ed. (Review), R. A. Robinson, 1931, 420; Errata, 1931, 560, 807.
- Bill to amend —. 1927, 225.
- Composition and Description of Food and Drugs. Memo. 36, Foods. 1927, 84.
- Correspondence. Circular 762. 1927, 84.

Sale of Food and Drugs Acts—continued.

- Disagreement of examinations under ——. **1928**, 596.
- Extracts from Annual Report of Ministry of Health for 1925–26 and Abstract of Reports of Public Analysts for 1925; **1926**, 575; for 1926–27, **1927**, 712; for 1927–28, **1928**, 651; for 1928–29, **1930**, 44; for 1929–30, **1931**, 110; for 1931–32, **1933**, 156; for 1932–33, **1934**, 820; for 1934–35, **1935**, 821.
- New Zealand Amending Regulations under ——. **1927**, 233.
- Validity of a summons under the new ——. (Legal Notes), **1929**, 156.
- Salford**: Average composition of milk in City of ——. **1929**, 467.
- Annual Report of the City Analyst for 1925. G. D. Elsdon, **1926**, 570; for 1926, H. H. Bagnall, **1927**, 640; for 1927, **1928**, 646; for 1928, **1929**, 740; for 1929, H. E. Monk, **1930**, 686; for 1930, **1931**, 314; for 1931, **1932**, 652; for 1932, **1933**, 687; for 1934, **1935**, 819.
- Official appointment of H. E. Monk as Agricultural Analyst for County Borough of ——. **1929**, 536.
- Official appointment of H. E. Monk as Public Analyst for County Borough of ——. **1929**, 411.
- Salicylaldehyde**: Determination and separation of saligenin, salicylic acid and ——. R. Berg, W. Grimmer and A. Müller, **1932**, 115.
- Methone as reagent for ——. **1929**, 486.
- Salicyl-Aldoxime** as a means for the micro-determination of copper. W. Reif, **1931**, 557.
- Determination of copper with ——. S. Austin and H. L. Riley, **1933**, 366.
- Salicylate** method of separating titanium from tantalum, niobium and zirconium. **1929**, 459.
- Salicylic Acid**: Bromine as a reagent in determining ——. **1931**, 734.
- Colorimetric determination of —, and determination of small quantities of benzoic and cinnamic acids. J. R. Nicholls, **1928**, 19.
- Determination and separation of saligenin, salicylaldehyde and —, R. Berg, W. Grimmer and A. Müller, **1932**, 115.
- derivatives; Determination of some — from the weight of Lautemann's red. M. François and L. Seguin, **1931**, 829.
- Ferric salicylate tests for ——. **1928**, 20.
- in food and drugs; Microchemical tests for ——. R. Fischer and F. Stauder, **1931**, 275.
- in foodstuffs; Detection of ——. **1931**, 301.
- Jorissen's test for ——. **1928**, 21.
- Production of — from benzoic acid. **1928**, 19.
- Relative effectiveness of — as disinfectant. **1926**, 259.
- Volatility of —. A. F. Lerrigo, **1926**, 79.
- Salicyl-Sulphonic Acid**: J. Rae, **1929**, 551.
- Salicylic-Thiosulphate** method for determining total nitrogen in plants and soil extracts; Modification of —. E. R. Ranker, **1927**, 555.

- Saligenin**: Determination and separation of salicylic acid, salicylaldehyde and ——. R. Berg, W. Grimmer and A. Müller, **1932**, 115.
- New colour reaction for ——. **1927**, 41.
- Salisbury**: Appointment of H. F. Barke as Public Analyst for City of ——. **1930**, 565.
- Saliva**: Detection of drugs in ——. **1930**, 476.
- Factors involved in the reaction changes of human ——. G. W. Clark and K. L. Carter, **1927**, 551.
- pH value and acid-neutralising power of —; Measurement of. B. C. Soyenkoff and C. F. Hinck, **1935**, 485.
- stains; Detection of ——. **1926**, 411.
- Salmon**: Crystals in tinned ——. **1931**, 808.
- Distinction between potted — and — paste. (Legal Notes), **1931**, 742.
- Earthy taste in ——. **1935**, 615.
- Magnesium ammonium phosphate in canned ——. L. H. James, **1933**, 222; C. H. Manley, **1933**, 337.
- Starch in potted ——. **1932**, 714.
- Salmonella Group**: Food poisoning due to ——. **1927**, 122.
- Further studies of the —. Medical Research Council Report No. 103. **1926**, 632.
- Infection by certain organisms of the —. S. R. Damon and L. W. Leiter, **1927**, 167.
- Infection of eggs by ——. **1933**, 758.
- Use of certain carbohydrates and glucosides in the differentiation of members of —. F. Wokes and J. H. Irwin, **1927**, 604.
- Salol** tablets. **1928**, 92.
- Salt**: Boric acid as natural constituent of common ——. **1927**, 460.
- complex — of the bases of the diphenyl series; A new. W. Herzog, **1926**, 592.
- Effect of common — on lime water used for egg preserving. J. Miller, **1927**, 457.
- errors; Isohydric indicators and pure water for accurate measurement of hydrogen ion concentrations and —. S. F. Acree and E. H. Fawcett, **1930**, 215.
- Foodstuffs containing —. Vol. VI of *Handbuch der Lebensmittel-Chemie*. (Review), **1935**, 345.
- in butter and margarine; Determination of —. G. van B. Gilmour, **1928**, 34; P. Arup, **1929**, 658.
- in cured meats; Determination of —. **1935**, 177.
- in margarine; Determination of —. D. W. Steuart, **1928**, 212.
- Influence on butter of salts associated with common —. F. E. Budagian and W. P. Pawlow, **1930**, 283.
- Iodine content of commercial iodised table —. G. Prange, **1933**, 768.
- iodine in —; Determination of. R. McCarrison, C. Newcomb, B. Viswanath and R. V. Norris, **1928**, 59.
- iodine in common —; Micro-determination of. H. Werner, **1931**, 341.
- Iodine in "iodised". —. **1930**, 390; R. L. Andrew and J. L. Mandefo, **1935**, 801.
- Iodised —. **1932**, 311.

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- mixtures; Determination of nitrite and sulphite in presence of one another in —. E. Szabó, **1931**, 120.
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 Purification of common — (American). T. B. Brighton and C. M. Dice, **1931**, 408.
 solutions; Determination of small amounts of manganese in —. N. A. Clark, **1933**, 638.
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 Tricalcium phosphate as a caking inhibitor in —. H. V. Moss, T. W. Schilb and W. G. Warning, **1933**, 232.
 "Salt Licks": Examination of earth from —. **1926**, 411.
Salting Out: Crystal formation by —. L. Rosenthaler, **1935**, 721.
Saltpetre: Perchlorate in Chili — determined by means of nitron. A. Vürtheim, **1927**, 251.
Salts and their Reactions. L. Dobbin and J. E. Mackenzie, **1929**, 314.
 associated with common salt; Influence of — on butter. F. E. Budagjan and W. P. Pawlow, **1930**, 283.
 complex — in dilute solution; Spectroscopic method of studying the formation of. Part 2. Y. Shibata and T. Inoue, **1928**, 675.
 in textiles; Determination of small amounts of —. A. A. New, **1932**, 333.
 Inorganic; Potentiometric titration of boric acid in presence of certain —. M. G. Mellon and F. R. Swim, **1928**, 178.
 of ~~litholeic~~ hexabromide from lumbang oil. G. A. Imperial and A. P. West, **1927**, 247.
 of organic acids; Attempted adsorption method for determining alkali —. C. G. Lyons and F. N. Appleyard, **1934**, 480.
 of pelletierine. G. Tanret, **1928**, 544.
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 used in curing; Influence of — on the oxidation and yellowing of lard. C. H. Lea, **1934**, 555.
Salts of Mercury: Action of — on the veronals. P. Fleury, **1926**, 92.
Salvarsan: Identification of —. M. Wagenaar, **1933**, 486.
Samarium: Atomic weight of —. **1928**, 160, 289; **1929**, 296; **1934**, 547.
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Samples: An apparatus for obtaining composite —: The miscometer. J. Houston, **1926**, 453.
 "Informal" —. **1929**, 466.
 Standard —. Dept. of Commerce U.S.A. Bureau of Standards, Bulletin No. 25, **1927**, 661.
 Wholesaler's —. (Legal Notes), Twynham v. Badcock, **1932**, 310.
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- Use of — for centrifuging small precipitates. S. Stene, **1932**, 592.
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Sanders Wood: Colour reactions of —. A. A. Wilson and J. N. Bennett, **1928**, 454.
Sandmeyer Reaction: Standardisation of the —, with special applications. H. S. Fry and I. W. Grote, **1926**, 264.
Sands, Clays and Minerals. Vol. I, No. 2, **1933**, 126; No. 3, **1933**, 314; No. 4, **1933**, 574. Vol. II, **1934**, 728.
 silica in glass —; Decomposition of refractory silicates by fused ammonium fluoride and its application to the determination of. A. C. Shead and G. F. Smith, **1931**, 274.
Sandstone Industry (Silicosis) Scheme, **1929**, 668.
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Sanio's potassium dichromate test for tannins. C. M. Fear, **1929**, 227.
Sansa Oil: Characterisation of —. F. Bernardini and E. A. Gauthier, **1934**, 59.
Santonica: santonin in —; Determination of. Eder and W. Schneider, **1927**, 40.
Santonin: Assay of —. H. M. Burlage, **1931**, 752.
 bearing drugs; Assay of —. H. M. Burlage and A. C. Smith, **1932**, 725.
 Biological method of testing — and allied anthelmintics. A. Schneider, **1928**, 661.
 Determination of — by means of 2:4-dinitrophenyl-hydrazine. O. Fernandez and L. Socias, **1932**, 580.
 in *Artemisia*; Assay of —. J. Coutts, **1932**, 726.
 in santonica; Determination of —. Eder and W. Schneider, **1927**, 40.
 in "Trochisci Santonini"; Determination of —. P. J. Claus, **1931**, 467.
 Microchemical and microscopical identification of —. M. Wagenaar, **1934**, 574.
Saponaria Officinalis: Distribution of saponin in —. F. G. de Wilde, **1932**, 180.
Saponification: A more stable alcoholic potash reagent for —. D. T. Englis and V. C. Mills, **1929**, 493.
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 in *Agrostemma githago* and *Saponaria officinalis*; Distribution of —. F. G. de Wilde, **1932**, 180.
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- Saponins** as foam-producing materials; Value of —. **1927**, 42.
- Sapote** (Mammy apple) seed and oil. G. S. Janfieson and R. S. McKinney, **1931**, 603.
- Sappan**: Colour reactions of —. A. A. Wilson and J. N. Bennett, **1928**, 454.
- Sarcina**: Filterable virus of —. **1928**, 286.
- Sardine** tins; Red colour of oil in preserved —. G. Hinard and M. Boury, **1930**, 454.
- Sardine Oil**: Analysis of —. **1934**, 47.
Drying properties of the polymerised products of — and of methyl esters derived from —. K. Kino, **1934**, 761.
Gadoleic acid identified in Japanese —. Y. Toyama and T. Tsuchiya, **1934**, 352.
Iodine value of a commercial Californian —. M. S. Dunn and B. S. Hollombe, **1927**, 483.
- Sardines** in oil; Determination of fish fat in —. G. Lunde and E. Mathiesen, **1934**, 47.
- Lead in —. **1935**, 612.
- lead in canned —; Occurrence and origin of. L. H. Lampitt and H. S. Rooke, **1933**, 733.
- Tin and lead in canned —. **1935**, 683.
- Sassafras Oil** as anti-ferment. **1928**, 612.
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- Satin Humbugs**: Sulphur dioxide in —. **1930**, 194.
- Sauerkraut**: Gas production in the making of —. L. M. Preuss, W. H. Peterson and E. B. Fred, **1929**, 57.
Studies of commercial — with special reference to changes in the bacterial flora during fermentation at low temperature. L. A. Priem, W. H. Peterson and E. B. Fred, **1927**, 356.
- Sausage**: Blood — with artificially coloured skin. T. Merl, **1927**, 93.
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- Sausages**: Boric acid in —. Label an insufficient declaration. (Legal Notes), **1926**, 408.
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Sulphurous acid in —. (Legal Notes), **1926**, 409.
- Truffle — containing *Tubiporus rufus* Schff. M. Brüllau, **1933**, 615.
Water-protein ratio of lean meat, and its bearing upon the analysis of —. F. W. Jackson and O. Jones, **1932**, 562.
- Sauterne** yeast; Alcoholic fermentation of mixtures of glucose and fructose by brewer's and —. R. H. Hopkins, **1931**, 463.
yeast; Fermentation of sugar mixtures by —. H. Sobotka and M. Reiner, **1931**, 267.
- Scale** structure of animal fibres; Methods of studying —. J. I. Hardy, **1932**, 200.
structure of wool and hair; Method for revealing —. J. Manby, **1932**, 201.
- Scale Standard** for determining nitrites in waters; A stable —. R. Danet, **1928**, 234.
- Scales**: Stable colorimetric — for measuring pH values. P. Bruère, **1926**, 424.
- Scammony Root** resin: its solubility in ether and the acid value as a test for rosin. C. E. Corfield and W. R. Rankin, **1931**, 673.
- Scandium**: Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.
Reaction of aluminium with hydroxides of gallium, indium, thallium, germanium and —. R. B. Corey and H. W. Rogers, **1927**, 172.
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- Scarborough**: North of England Section Summer Meeting at —. **1930**, 473; **1931**, 497; **1932**, 485.
- Scatoll**: Colour reaction of —. **1932**, 588.
- Schäffer Acid**: Separation of Crocein, R and G acids and — and their arylamine salts. R. B. Foster and C. M. Keyworth, **1927**, 169.
- Schardinger's** test for the degree of heating of milk. **1929**, 237.
- Scheele and Svensson's Method** for starch in cereal products. **1931**, 184.
- Schiff's Reagent**: Action of — on pyrimidone. A. Valdiguié, **1929**, 112.
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- Schlagdenhaufen** reaction for magnesium. A. Hamy, **1927**, 251.
- Schlämmanalyse**: (Review), H. Gessner, **1931**, 352.
- Schmidt** reaction for saccharin. **1927**, 379.
- Schöbel's** heating block for the Pregl micro carbon-hydrogen determination. H. Lieb, **1934**, 718.
- Schoutelen's Test** for aloes. **1933**, 518.
- Science**: Report of the British Association for the Advancement of — for 1933. **1934**, 310.
Students; Basic German for —. (Review), M. L. Barker, **1933**, 571.
- Scientific Criminal Investigation**; Forensic Chemistry and —. 2nd Ed. A. Lucas, **1931**, 698.
Detective and the Expert Witness. 2nd Ed. C. A. Mitchell, **1931**, 698.
glassware standards. B.S.I. specifications for distillation flasks and ground-glass joints. **1935**, 42.
Societies of Gt. Britain and Ireland; Official Year Book of —. **1934**, **1935**, 206.
- Scientific and Industrial Research Dept.**: Building materials Report No. 17. Determination of free calcium oxide and hydroxide. B. Bakewell and G. E. Bessey, **1932**, 575.
Building Research Board Report for 1933. **1934**, 755.
Chemistry Research Board Report for the ten years ended December 31st, 1934. **1935**, 613.
Corrosion of lead in buildings. Technical Paper No. 8. F. L. Brady, **1935**, 321.
Dry rot in wood, **1928**, 654.

Scientific and Industrial Research Dept.

—continued.

- Food Investigation Board Report for the year 1924. 1926, 142; for 1925 and 1926, 1927, 541; for 1927, 1928, 35; for 1929, 1930, 507; for 1930, 1931, 531; for 1931, 1932, 715; for 1932, 1933, 611; for 1933, 1934, 696, 1935, 249; for 1934, 1935, 687.
- Food Investigation Leaflet No. 6. Refrigerated gas-storage of apples. F. Kidd and C. West, 1935, 757.
- Food Investigation Report No. 8. Measurement of humidity in closed spaces. 1926, 35; 1934, 112.
- Food Investigation Report No. 23. Functional diseases of apples in cold storage. 1926, 85.
- Food Investigation Report No. 26. The storage of eggs. 1926, 247.
- Food Investigation Report No. 31. Changes produced in meat extracts by the bacterium *Staphylococcus aureus*. F. W. Foreman and G. S. Graham Smith, 1928, 338.
- Food Investigation Report No. 33. A critical and historical study of the pectic substances of plants. 1929, 594.
- Food Investigation Report No. 35. Heat insulators. 1929, 743.
- Food Investigation Report No. 38. Wastage in imported fruit: its nature, extent and prevention. J. Baker, 1930, 634.
- Food Investigation Report No. 40. The corrosion of the tin-plate container by food products. 1931, 315.
- Food Investigation Report No. 41. The freezing, storage and transport of New Zealand lamb. E. Griffiths, J. R. Vickery and N. E. Holmes, 1932, 574.
- Food Investigation Report No. 42. The yellowing of the abdominal fat of frozen rabbits. J. Vickery, 1932, 520.
- Food Investigation Report No. 43. Storage of meat in small refrigerators. R. B. Haines and E. C. Smith, 1934, 175.
- Forest Products Research Board Reports, 1933, 155.
- Fuel Research Board Report for year ended March 31st, 1933. 1934, 34.
- Fuel Research Paper No. 20. The Thomas recording gas calorimeter. 1928, 385.
- Fuel Research Paper No. 21. The Assay of Coal for Carbonisation Purposes (Part 2). 1929, 233.
- Fuel Research Paper No. 22. The reactivity of coke. 1929, 471.
- Fuel Research Paper No. 24. The assay of coal for carbonisation purposes (Part 2). Correlation with coal gas manufacture. J. G. King and L. J. Edgcombe, 1930, 279.
- Fuel Research Paper No. 25. Reactivity of Coke. Influence of iron compounds. 1930, 511.
- Fuel Research Paper No. 27. Measurement of a rapidly fluctuating flow of gas. 1931, 111.
- Fuel Research Paper No. 31. Analysis of Commercial Grades of Coal. 1934, 540.
- Industrial Application of X-ray crystal analysis. 1934, 487.

Scientific and Industrial Research Dept.

—continued.

- Investigation of atmospheric pollution. Report for year 1926-27. 1928, 494; for 1927-28, 1930, 450; for 1928-29, 1930, 755; for 1929-30, 1931, 254; for 1930-31, 1932, 249; for 1931-32, 1933, 283; for 1932-33, 1934, 280; for 1933-34, 1935, 409.
- National Physical Laboratory Report for 1927. 1927, 413; 1928, 340; for 1928, 1929, 340; for 1929, 1930, 512; for 1930, 1931, 661; for 1931, 1932, 461; for 1932, 1933, 402; for 1933-34, 1935, 175; for 1934-35, 1935, 469.
- Privy Council Committee Report. 1928, 221. Report for the year 1930-31. 1932, 164; for 1931-32, 1933, 227; for 1932-33, 1934, 411; for 1933-34, 1935, 175.
- Stone Preservation Committee Report. 1927, 645.
- Water Pollution Research Board Report for year 1927-28. 1929, 107; for 1928-29, 1930, 510; for 1931-32, 1933, 282; for 1932-33, 1934, 282; for 1933-34, 1935, 37.
- Water Pollution Research Report No. 4. Action of water on lead, with special reference to the supply of drinking water. H. Ingleson, 1934, 346.
- Water pollution research. Summary of current literature. 1930, 195.
- Water Pollution Research. Water Softening. The base exchange or zeolite process. 1930, 46.
- Scleroproteins:** Use of colour reaction for hydroxy-proline in distinguishing the ——. W. Morse, 1933, 294.
- Sclerotium** disease of rice. 1933, 347.
- Scones:** Devonshire and Cornish cream in ——. (Legal Notes), 1935, 246.
- Scopoletine** reaction for *Hyoscyamus* extracts. E. C. M. J. Hollman, 1931, 819.
- Scymnorhinus Lichia:** unsaponifiable matter from the stomach oil of ——. Note on the. E. D. Kamm, 1928, 294.
- Sea:** Industrial chemicals from the ——. G. M. Dyson, 1926, 597.
- Sea Fish:** Identification of common edible ——. C. Hattersley, 1935, 69.
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- Detection of —— in drowning cases. 1930, 755.
- fluorides in ——; Determination and occurrence of. T. G. Thompson and H. J. Taylor, 1933, 369.
- Government Laboratory work on ——. 1933, 693.
- in natural waters; Tests for ——. 1934, 690.
- Organic matter in ——. L. Espil, 1935, 631.
- Sterilisation of —— by means of chlorine. D. R. Wood and E. T. Illing, 1930, 125.
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- in milk; Note on the filtration method of measuring —. A. R. Tankard, **1926**, 31.
- Sedimetric** method of determining starch in pectin and apple juices. H. Eckart and A. Diem, **1926**, 524.
- Seed Fats:** Fatty acids and glycerides of solid —. I. T. P. Hilditch and S. A. Saletore, **1932**, 113; II, Composition of some Malayan vegetable fats. T. P. Hilditch and W. J. Stainsby, **1934**, 632.
- of *Myristica malabarica*; Fatty acid and glyceride structure of —. G. Collin, **1933**, 351.
- of some cultivated species of *Umbelliferae*. B. C. Christian and T. P. Hilditch, **1929**, 547.
- Regularities in the glyceride structure of vegetable —. G. Collin and T. P. Hilditch, **1930**, 291.
- Some Indian —. D. R. Dhingra, G. L. Seth and P. C. Speers, **1933**, 350.
- Seed Oil:** China jute —. T. Inaba and K. Kitagawa, **1935**, 335.
- of *Brassica* species; Fatty acids of —. Composition of rape, rapeseed and mustard —. T. P. Hilditch, T. Riley and N. L. Vidyarthi, **1928**, 108.
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- rancidity in fats from intact —; Detection of. A. Niethammer, **1929**, 548.
- sandalwood —; Characteristics of. Y. V. S. Iyer, **1935**, 319.
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- Toxicity and acridness of cruciferous — and oil cakes. G. Jørgensen, **1927**, 44.
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- Selenic Acid:** Reaction of cholesterol with sulphuric, telluric and —. E. Montignie, **1934**, 426.
- Selenide:** Detection of cadmium as —. P. Krumbholz and O. Kruh, **1935**, 636.
- Selenious Acid** as means of determining zirconium. S. G. Simpson and W. C. Schumb, **1931**, 337.
- as means of determining zirconium in steel. S. G. Simpson and W. C. Schumb, **1933**, 243.
- Selenious Anhydride:** Action of — on sterols. E. Montignie, **1932**, 328.
- Selenite-phosphate Method** for determining zirconium. S. G. Simpson and W. C. Schumb, **1935**, 273.
- Selenites:** selenium in —; Determination of. J. H. Van der Meulen, **1934**, 505.
- Selenium:** arsenic in presence of —; Detection of. E. Guérin, **1928**, 508.
- as catalyst in the determination of nitrogen by the Kjeldahl method. M. F. Lauro, **1931**, 813.
- as catalyst in the Kjeldahl method for determining nitrogen in coal and coke. H. E. Crossley, **1932**, 739.
- as indicator in the bromate titration of arsenic. L. Szebellédy and K. Schick, **1934**, 571.
- Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 414, 547.
- Biological methylation of compounds of arsenic and —. F. Challenger, **1935**, 713.
- catalyst; Application of — in the determination of nitrogen and phosphorus in phospholipids. F. E. Kurtz, **1933**, 636.
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- compounds; Fungicidal and bactericidal action of tellurium and —. N. M. Strover and B. S. Hopkins, **1927**, 356.
- Detection of —. N. S. Poluektoff, **1934**, 504.
- Determination of — by the sesquichloride of titanium. O. Tomicek, **1928**, 59.
- Determination of iodine in organic compounds containing —. F. M. Hamer, **1933**, 26.
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 - H. G. Byers and H. G. Knight, **1935**, 774.
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 - Selenium Sulphide**: a new detector for mercury vapour. B. W. Nordlander, **1927**, 357.
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 - Separator** for fractional distillation under reduced pressure. R. Delaby and R. Charonnat, **1929**, 124.
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 - Seta**: Alleged differentiation of human — as to sex. R. R. Hyde and E. I. Parsons, **1927**, 167.
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 - Serology**: Practical —. (Review), L. Vignano, **1928**, 562.
 - Serum**: blood-; Colorimetric determination of total and inorganic sulphates in —, E. G. Wakefield, **1929**, 300. blood-; Colorimetric method for determining inorganic phosphate in —, S. L. Leiboff, **1928**, 663. blood-; Determination of total base in — by means of gasometric micro method for determining iodates and sulphates. D. D. Van Slyke, A. Hiller, and K. C. Berthelsen, **1927**, 651. calcium in —; Micro-determination of, P. Wenger, C. Cimerman and P. Bouglund, **1934**, 650. calcium in —; Volumetric determination of. F. and D. Rappaport, **1935**, 199. diagnosis in the investigation of foodstuffs. C. Griebel and H. Maass, **1932**, 326. inorganic sulphate in —; Determination of. R. S. Hubbard, **1930**, 764. milk-; Action of chloramine-T on —, **1927**, 677. milk-; Determination of lactose in —, **1927**, 680. proteins; Colorimetric determination of the —, D. M. Greenberg, **1929**, 428. proteins; Fractionation of — by means of ammonium sulphate. A. Muschel, **1928**, 548.
 - Sesame seeds** in raspberry jam. (Legal Notes), **1931**, 809.
 - Sesame Oil**: Constituents of —, **1929**, 109. Detection and determination of — when mixed with other edible oils, with particular reference to arachis oil. E. H. Bunce, **1930**, 567. Iodine value of —, **1933**, 525, 601. Manganese in —, **1929**, 348. Thiocyanogen values of Egyptian —, H. Atkinson, **1934**, 399.
 - Sesamin** and sesamolin. W. Adriani, **1929**, 109.
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 - Sewage**: analysis of waters, — and effluents; Critical review of methods of. • J. W. H. Johnson, **1927**, 128. *Bacillus typhosus* isolated from —, W. J. Wilson, **1928**, 451. chlorination; Control of —. Use and value of the *o*-tolidine test. C. Lea, **1933**, 779. Colloids of —, **1934**, 283.

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- disposal; Methods of —. 1935, 38.
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 -polluted liquids; Determination of stable and unstable organic matter in —. W. E. Abbott, 1928, 396.
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- Sex:** Alleged differentiation of human sera as to —. R. R. Hyde and E. I. Parsons, 1927, 167.
- Shaffer-Harmann** micro sugar reagent; Effect of potassium iodide in the —. W. A. de Long, 1927, 350.
- Shakespeare** Forgeries in the Revels Accounts. (Review), S. A. Tannenbaum, 1929, 627.
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- Shellac:** Its Production, Manufacture, Chemistry, Analysis, Commerce and Uses. (Review), E. J. Parry, 1935, 434.
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- Shell Fish:** arsenic compounds in marine crustaceans and —; On the presence of. A. C. Chapman, 1926, 548.
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- "Sherry"** and "Port"; Use of the terms —. (Legal Notes), 1926, 32.
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- Ships:** Fumigation of — with hydrogen cyanide. Ministry of Health Report. 1928, 341.
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- Shrinking** Effect and Calender Effect of Unvulcanised Rubber. (Review), W. de Visser, 1927, 256.
- Siam:** Report of the Government Laboratory, Bangkok, for the two years April, 1922 to March, 1924. A. Marcan, 1926, 463; for 1924–26, 1927, 32; for 1927–28, 1929, 475; for 1929–30, 1932, 312; for 1930–32, 1934, 753.
- Sickness:** "Gulf —" and the arsenic theory. A. Juckenack and A. Brüning, 1926, 531.
- Sild** in olive oil; Tin in —. 1935, 820.
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- Silica:** Biophysics of — and etiology of silicosis. P. Hefferman, 1929, 757.
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- in silicates; Determination of —. N. A. Tananaeff and F. I. Pertschik, **1932**, 540.
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- in tissues and in blood; Micro-determination of —. G. Rodillon, **1934**, 438.
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- in tissues; Micro-gravimetric determination of —. J. C. Morgan and E. J. King, **1932**, 339.
- in vegetable substances determined by means of mixed nitric and perchloric acids. L. Lematte, G. Boinot, E. M. Kahane, **1931**, 686.
- iron in —; Determination of small quantities of. **1926**, 506.
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- Picric acid as an artificial standard in the colorimetric determination of —. E. J. King and C. C. Lucas, **1928**, 617.
- Plant ash constituents determined in presence of —. J. Davidson, **1932**, 55.
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- Silicate** analysis; Determination of small quantities of nickel in —. **1933**, 673.
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- minerals; Application of X-rays in the classification of fibrous — commonly termed asbestos. H. V. Anderson and G. L. Clark, **1929**, 771.
- Silicates**: boric acid in —; Determination of. E. Schulek and G. Vastagh, **1932**, 335.
- Decomposition of refractory — by fused ammonium fluoride and its application to the determination of silica in glass sands. A. C. Shead and G. F. Smith, **1931**, 274.

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- in aluminium; Determination of —. L. H. Callendar, **1932**, 500.
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- in complex fluoride solution; Volumetric determination of beryllium and —. J. A. Tschernichow and E. J. Guldina, **1935**, 638.
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- colloidal; —Chemical characteristics of. G. Gaume, **1931**, 607.
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- Concentration of vitamin B with —. R. J. Block, G. R. Cowgill and B. H. Klotz, **1932**, 186.
- Detection of — with dimethylamino-benzylidene rhodanine. F. Feigl, P. Krumholz and E. Rajmann, **1931**, 485.
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- Optical analysis of some colloidal solutions of —. F. Rimattei, **1930**, 656.
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- Reductor in the direct determination of iron in presence of vanadium. G. H. Walden, J. P. Hammett and S. M. Edmonds, **1934**, 302.

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- Silver azide as a microchemical test for —. R. Uzel, **1930**, 718.
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- Silver Azide** as a microchemical test for Silver. R. Uzel, **1930**, 718.
- Silver Benzoate** test for olive oil. **1928**, 497.
- Silver Chloride**: Bactericidal properties of —. J. Dekker and C. H. Dekker-Koers, **1933**, 357.
- Silver Cyanide** method of assaying pyramidon. R. Machtou, **1931**, 326.
- Silver Molybdate**: Determination of molybdate as —. L. W. McCay, **1935**, 198.
- Silver Nitrate**: Determination of ethylene by absorption in a solution of —. V. N. Morris, **1929**, 487.
- Titration of barbital with — by H. Budde's method. J. M. A. Hegland, **1935**, 259.
- Titration of ferrocyanides with — using fluoresein. **1930**, 614.
- Silver Oxide**: Oxidation of amino acids by means of —. R. M. Herbst and H. T. Clarke, **1934**, 425.
- Sinalbin** as an indicator; Use of —. K. Harrison, **1932**, 401.
- Singapore milk**; Composition of —. **1934**, 490.
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- Sivadjian's Colour Reaction** for identifying ephedrin. W. H. Hartung, F. Crossley and J. C. Munch, **1931**, 467.
- Sized** cotton materials; Determination of deliquescent substances in —. S. M. Neale, **1926**, 645.
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- Sliding-Gauge** colorimeter, and determination of small amounts of ammonia, nitrites, lead and iron. A. L. Bernoulli, **1926**, 649.
- Slippery Elm Bark**: Mucilage from —. E. Anderson, **1934**, 196.
- Sludge** effluents; Dissolved oxygen absorption-time relation of activated —. P. Gaunt and W. E. Abbott, **1928**, 171.
- Smell**: Odours and the sense of —. J. H. Kenneth, **1926**, 372.
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- Smith** (Maurice) colour test for ergot alkaloids. **1932**, 45.
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Snow? Nitrogen compounds in rain and —. 1926, 520.

Soap: (Review), W. H. Simmons, 1932, 484.

American — Maker's Guide. (Review), I. V. S. Stanislaus and P. B. Meerbott, 1929, 378.

Soap Analysis: Sub-Committee on Methods of —. 1935, 730.

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B.P. limits for "free fat" in —. Sub-Committee note. 1934, 104.

castor oil — disinfectant; Determination of high-boiling phenols in a coal tar creosote and. J. N. Taylor, 1928, 452.

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Errors in analysis of alkaloids caused by presence of fatty acid or —. H. R. Watkins and S. Palkin, 1927, 290.

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liquid-; Determination of the concentration of — by the immersion refractometer. L. F. Hoyt and A. Verwiebe, 1926, 427.

Perfumes, Cosmetics and —, with especial reference to Synthetics. (Review), W. A. Pouches, 1926, 275; Vol. II, 1927, 109; 3rd Ed., 1931, 348; 4th Ed., 1933, 251.

soft — for spraying; Specification for. 1934, 695.

sugar in — and — preparations; Determination of. K. Braun and E. Walter, 1929, 767.

unsaponified fat in —. Appointment of Sub-Committee on. 1931, 738.

unsaponified fat in —; Sub-Committee on the determination of. Report No. 2, 1935, 537.

unsaponified oil in fatty acids or —; Determination of. E. Lester Smith, 1931, 9.

Society of Chemical Industry. Annual Reports on the Progress of Applied Chemistry. (Review), 1927, 369; for 1929, 1929, 502; for 1930, 1930, 532; for 1932, 1933, 312; for 1933, 1934, 442; for 1934, 1935, 206.

Joint Meeting of Food Group of — with the Society of Public Analysts. 1933, 200; 1934, 231, 735; 1935, 69.

Society of Dyers and Colourists: Report of Fatness Committee of —. 1935, 43.

Society of Public Analysts and other Analytical Chemists: Address presented by the — on the occasion of the Berthelot Centenary. 1927, 620.

Address sent by — to the Associazione Italiana di Chimica. 1926, 280.

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Annual Address of the President. Council decision on —. 1935, 2.

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Joint Meeting with Food Group of the Society of Chemical Industry. 1933, 200; 1934, 231, 785; 1935, 69.

Letter to the Ministry of Agriculture and Fisheries on "Variations in the composition of milk." 1929, 472.

North of England Section of the —. 1926, 1, 169, 605; 1927, 182; 1928, 117; 1929, 198, 630; 1930, 2, 162, 307, 473, 728; 1931, 1, 143, 222, 283, 284, 497, 699; 1932, 1, 137, 283, 485, 684; 1933, 1, 127, 154, 253, 377, 653; 1934, 1, 145, 216, 311, 445, 729; 1935, 1, 131, 212, 283, 505, 729.

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Reminiscences of its First Fifty Years and Review of its Activities. (Review), B. Dyer and C. A. Mitchell, 1933, 119.

Scottish Section of the —. 1935, 213, 791.

Soda Ash: strengths of commercial caustic soda and —; Method of expressing. 1927, 529.

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Sodammonium method of determining halogens in organic compounds; Determination of fluorine. F. Govaert, 1933, 107.

- Sodium:** Application of the volumetric determination of uranium to the indirect titration of minute quantities of —. I. M. Kolthoff and J. S. Lingane, **1933**, 419.
- Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.
- Colorimetric determination of —. R. A. McCance and H. L. Shipp, **1931**, 552.
- compounds; Precipitation of the earth acids by —. (Investigations into the analytical chemistry of tantalum, niobium and their mineral associates. VI.) W. R. Schoeller and C. Jahn, **1926**, 613.
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- Determination of —. L. Barthe and E. Dufilho, **1926**, 479.
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- in cow's milk; Elimination of chlorine and —. L. Barthe and E. Dufilho, **1927**, 287.
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- in organic compounds determined by the uranyl acetate method. D. L. Tabern and E. F. Shelberg, **1931**, 685.
- in plants. G. Bertrand and J. Perietzeanu, **1927**, 488.
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- Nickel uranyl acetate as qualitative reagent for —. P. Feldstein and A. M. Ward, **1931**, 245.
- Picrotonic acid as reagent for —. Y. Volmar and M. Leber, **1933**, 782.
- Potassium antimonate test for —. W. Böttger, **1930**, 773.
- Separation of lithium from —. L. Moser and K. Schutt, **1929**, 370 (see also List of Errata); A. Sinka, **1930**, 598.
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- Uranyl zinc acetate as reagent for the quantitative determination of —. I. M. Kolthoff, **1929**, 435.
- Volumetric determination of —. E. C. Caley, **1930**, 412; A. Blenkinsop, **1931**, 134 (see also List of Errata); J. T. Dobbins and R. M. Byrd, **1931**, 764; N. H. Furman, E. R. Caley and I. C. Schoonover, **1932**, 539.
- Sodium Alizarinsulphonate** as a reagent. E. G. Germuth and C. Mitchell, **1929**, 308.
- Sodium Aluminate:** Argentometric determination of alkali and sulphide in —. N. A. Tananaeff and M. A. Schachowa, **1935**, 427.
- Sodium Benzoate:** Analysis of sodium salicylate and —. D. Henville, **1927**, 149.
- Sodium Bicarbonate:** Analysis of —. Isnard, **1926**, 357.
- Sodium Bifluoride:** Analysis of —. **1926**, 370.
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- Sodium Bisulphite:** Effect of — on the polarising power of sugars. Y. Tomoda and T. Taguchi, **1931**, 114.
- Sodium Borate:** Action of — on the reaction of alkali cyanides with reducing sugars. J. Bougault, Z. Hardy and A. Pinguet, **1933**, 410.
- Sodium Carbonate:** Germicidal efficiency of sodium hydroxide, — and trisodium phosphate at the same hydrogen ion concentration. M. Levine, R. E. Petersen and J. G. Buchanan, **1928**, 170.
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- Sodium Citrate** tablets; Examination of —. **1926**, 184.
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- Sodium Cyanamide:** Potentiometric titration of —. H. Sinozaki, **1933**, 491.
- Sodium Cyanide:** Specification for —. **1934**, 696.
- Sodium Diethyldithiocarbamate** as means of determining zinc in water. W. R. G. Atkins, **1935**, 400.
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- Sodium Dinitrophenate**: J. C. Bird, Z. Panciera and E. G. E. Shafer, **1935**, 187.
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- Sodium Ethylate** test for saponifiable oil. **1931**, 10.
- Sodium Ferrocyanide**: Determination of purity of — by titration with zinc sulphate solution. Farbsalz-Gesellschaft, Berlin, **1929**, 437.
- Sodium Fluoride** as preservative of blood for chemical analysis. J. H. Roe, O. J. Irish and J. I. Boyd, **1928**, 105.
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- Sodium Glycerophosphate**: Volumetric determination of —. S. Babitsch, **1935**, 627.
- Sodium Hexametaphosphate** as reagent for eliminating the interference due to calcium in the volumetric Fehling's titration for invert sugar. J. G. N. Gaskin, **1935**, 318.
- Sodium Hydrogen Carbonate**: Iodimetric determination of phosphorous acid and use of — in iodimetry. P. Carré, **1928**, 305.
- Sodium Hydrosulphide** in sodium sulphide products; Determination of —. E. Benesch, **1933**, 782.
- Sodium Hydrosulphite**: Some analytical applications of —. (Antimony, bismuth, lead, cadmium.) B. S. Evans, **1929**, 395; II, Separation of tin from copper, zinc, lead, etc., and from oxalic acid. Determination of tin in steel. B. S. Evans, **1932**, 362.
- Sodium Hydroxide**: Compound of creatinine, picric acid and —. I. Greenwald, **1928**, 400.
Germicidal efficiency of —, sodium carbonate and trisodium phosphate at the same hydrogen ion concentration. M. Levine, E. E. Petersen and J. G. Buchanan, **1928**, 170.
solution. Action of — on modified cotton cellulose at the ordinary temperature. C. Birtwell, A. Clibbens and A. B. Geake, **1928**, 692.
solutions; Preparation, storage and use of standard carbonate-free —. W. W. Kay and H. L. Sheehan, **1935**, 119.
- Sodium Hypochlorite** solutions; Deterioration of —. W. L. Davies, **1934**, 619.
- Sodium Molybdate** solutions; Action of various sugars on the reaction of —. P. Thomas and C. Kalman, **1933**, 617.
- Sodium Morrhuate**: Variation in commercial samples. R. T. M. Haines, **1933**, 352.
- 7:6 Sodium Niobate**: **1926**, 617.
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- Sodium Nitroprusside**: Colour reaction of formaldehyde and ketones with hydroxylamine and —. P. Pratesi, **1932**, 122.
- Sodium Nitroprusside**—*continued*.
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- Sodium Paratoluene-Sulphonchloramide**: Behaviour of natural and artificial fruit essences towards — (Heyden chloramine). A. Miermeister, **1931**, 51.
- Sodium Phosphate**: Behaviour of indicators in the titration of —. R. T. Thomson, **1928**, 315.
- Sodium Salicylate**: Analysis of sodium benzoate and —. D. Henville, **1927**, 149.
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- Sodium Stannate** tin-plating solutions; Analysis of —. A. W. Hothersall, S. G. Clarke and D. J. Macnaughtan, **1934**, 365.
- Sodium Sulphate** method for sodium determination; Irregularities in —. G. W. Collins, **1931**, 686.
Preparation of anhydrous —. V. Cerchez and C. Panaitescu, **1933**, 419.
- Sodium Sulphide**: Argentometric determination of —. N. A. Tananaeff and J. N. Kremer, **1935**, 427.
Method of Qualitative Chemical Analysis. (Review), G. Vortmann and R. Lieber, **1934**, 581.
products; Determination of sodium hydrosulphide in —. E. Benesch, **1933**, 782.
solutions; Measurement of hydroxyl and hydrosulphide ions in —. A. W. Goetz, **1931**, 482.
- Sodium Sulphite** and elon as reducing agents in the colorimetric determination of phosphorus. G. van der Lingen, **1933**, 755.
- Sodium Sulphydrate**: Argentometric determination of —. N. A. Tananaeff and J. N. Kremer, **1935**, 427.
- 4:3 Sodium Tantalate**. **1926**, 615.
- Sodium Tungstate** free from molybdate; Preparation of —. O. Folin, **1934**, 764.
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- Soffioni** of Tuscany. (Review), R. Nasini, **1931**, 215.
- Soil acidity**; Colloidal complications in the thiocyanate method of determining —. F. O. Anderegg and R. P. Lutz, **1926**, 48.
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- Soil**—*continued.*
 condition and Plant Growth (Review). Sir E. J. Russell, 5th Ed., 1927, 257; 6th Ed., 1932, 344.
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 extracts; Cobaltinitrite volumetric method of determining potassium in —. G. Milne, 1929, 558.
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- Soils:** acid; Aluminium and —. J. Line, 1926, 532.
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 Base-exchange in — determined by means of copper. J. Lavollay, 1935, 775.
 boron in —; Determination of minute amounts of. W. W. Scott and S. K. Webb, 1932, 400.
 carbon dioxide in carbonates in —; Determination of. A. Riad, 1928, 486.
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 ferruginous-; Mechanical analysis of heavy —. R. C. Groves, 1928, 350.
 hydrogen ion concentration of —; Accuracy of the various methods of measuring. C. Olsen and L. Linderström-Lang, 1927, 556.
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 R. McCarrison, C. Newcomb, B. Viswanath and R. V. Norris, 1928, 59. G. S. Fraps, J. F. Fudge and E. C. Carlyle, 1935, 631.
- Soils**—*continued.*
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 lime requirements of —; Rapid electro-metric method for measuring. F. Hardy and A. H. Lewis, 1929, 184.
 Magnesium in extracts of — in hydrochloric acid determination by the oxine method. H. J. Hardon and W. Wirjodihardjo, 1935, 52.
 Mechanical analysis of —. Report and recommendations of Agricultural Education Association Sub-Committee. 1926, 211.
 Mechanical analysis of New Zealand —. R. E. R. Grimmett, 1926, 429.
 Neubauer's chemico-physiological method for determining phosphoric acid and potassium assimilable by —. C. Antoniani and M. Nicolini, 1931, 825.
 nitrate nitrogen, total nitrogen and other elements in —; Chlorate method for determining. E. M. Emmert, 1929, 491.
 nitrates in —; Pyrogallol method for determining. L. U. De Nardo, 1929, 360.
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 organic carbon in —; Determination of. G. W. Robinson, W. McLean and C. B. Williams, 1929, 360.
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 phosphoric acid in —; Application of the strychno-molybdic method to the determination of. C. Antoniani and S. Bonetti, 1929, 485.
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 Phosphoric ion in — rapidly determined by ceruleo-molybdimetry. G. Denigès, 1928, 351.
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 rich in iron, alumina and titania. 1934, 826.
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- Solanine:** Detection of —. B. Alberti, 1932, 726.
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- Solanocapsine:** A new alkaloid with a cardiac action. J. M. Watt, H. L. Heimann and E. Epstein, 1933, 173.

- Solanum Dulcamara** (bittersweet): Poisoning by —. H. Lowe, 1929, 153.
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- Solbrol** in foods, 1928, 291.
- Solders**: Research on —. 1935, 251.
- Sole**: Identification of —. 1935, 70.
- Solid**: "wettability" of a — by a liquid; Determination of the. E. E. Bartell and H. J. Osterhof, 1928, 61.
- Solidification** points of edible fats. T. Meyer, 1927, 236.
- Solids**: Combustible —; Commission on. • 1928, 656.
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- Solids-not-Fat** in milk; Effect of standing on —. 1930, 543.
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- Solubility** of sparingly soluble substances; Method for determining the —. S. Mitchell, 1926, 539.
- Solution**: Association Theory of — and Inadequacy of Dissociation Theory. (Review), J. N. Rakshit, 1932, 682.
critical — temperatures for the analysis of petroleum spirit; Extension of the method of. M. Aubert and E. Aubrée, 1926, 269.
- Solutions**: aqueous and cottonseed oil —; Refractometric determination of alcohols and esters in. J. C. Munch, 1926, 314.
Conductivity of — and the Modern Dissociation Theory. (Review), C. W. Davies, 1930, 469; 2nd Ed., 1933, 645.
filtration in the warm of saturated —; Apparatus for. S. H. Bertram and W. A. Van Meurs, 1930, 300.
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- Solvent**: Acetamide as a —. O. F. Stafford, 1934, 56.
- Solvent**—continued.
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Vanadium oxytrichloride as a —. F. E. Brown and J. E. Snyder, 1926, 50.
Volatile — method for determining moisture. J. M. Jones and T. McLachlan, 1927, 383.
- Solvents** (Review), T. H. Durrans, 1930, 726; 2nd Ed., 1931, 695; 3rd Ed., 1934, 307.
Action of — on the activation of ergosterol. C. E. Bills, E. M. Honeywell and W. M. Cox, Junr. 1931, 678.
B.S.I. specifications for —. 1935, 104.
for small particles of insoluble material; Fused beads on platinum wire as —. A. P. Laurie, 1934, 746.
in Synthetic Organic Chemistry; Use of —. (Review), D. W. McArdle, 1926, 274.
of lacquers; Separation and analysis of the volatile thinners and —. R. M. Carter, 1927, 102.
Poisoning by vapours of certain esters used as —. P. Duquenois and P. Revel, 1934, 641.
Reagent for oil extracted by carbon disulphide and identification of olive oil extracted by —. S. Fachini, 1926, 636.
Solubilities of oils and waxes in organic —. J. W. Poole, 1930, 212.
Use of Agulhon's reagent in the analysis of —. E. C. Craven, 1933, 776.
Volatile Thinners and —. (Review), N. Heaton, 1926, 379.
- Somerset**: Average composition of milk in —. 1929, 467.
herds; Tubercle bacilli in milk of —. 1930, 544.
Report of the County Analyst and Bacteriologist for the year 1926. D. R. Wood, 1928, 36; for 1928, 1929, 231; for 1931, 1932, 246.
- Sonderöl** (a proprietary oil), added to edible fats; Detection and determination of —. H. Schmalfluss and H. Werner, 1932, 784.
- Soneryl**: Action of salts of mercury on —. P. Fleury, 1926, 92.
- SOOH (Sulphinic) Group**: Determination of — and of ferric iron. S. Krishna and H. Singh, 1928, 303.
- Soot**: Examination of —. 1931, 811.
- Sorbite** process for detecting fruit wine in grape wine; F. M. Litterscheid, 1932, 178.
- Sorbitol** in fruit products; Detection of —. G. Reif, 1934, 760.
in presence of dulcin and saccharin; Detection of —. G. Reif, 1934, 44.
in pure grape wines; Occurrence of —. E. Vogt, 1935, 704.
in the analysis of jams; Detection of —. C. F. Muttelet, 1931, 186.
in wine. Detection of —. B. Bleyer, W. Diemair and G. Lix, 1933, 163.
process of detecting fruit wine in grape wine. A. Röhling and J. Richarz, 1930, 201; G. Reif, 1930, 335; M. Klostermann and W. Fachmann, 1931, 405.

- Sound-proof box** for electrically-driven centrifuges. N. Pollard, **1935**, 752.
- Soup-Cubes**: gelatin in —; Chemical and spectrophotometric detection of. H. Mohler, E. Helberg and F. Almasy, **1934**, 180.
- Souring**: Bacteriological study of ham —. E. A. Boyer, **1927**, 98.
- South Africa**: Cryoscopy of Milk in —. L. Denis-Nathan, **1933**, 574.
Department of Agriculture. Report of the Division of Chemistry for year ended June 30th, 1933. St. J. C. O. Sinclair, **1935**, 101.
Food, Drugs and Disinfectants Act. **1929**, 600.
Maize in —. B. Segal, **1935**, 326.
- South American cinchona barks**. L. Rosenthaler, **1929**, 753.
- Southampton**: Appointment of A. P. Davson as Public Analyst for County of —. **1930**, 383.
- Southport**: Appointment of W. H. Roberts as Agricultural Analyst for County Borough of —. **1932**, 163; as Public Analyst for County Borough of —. **1930**, 565.
- Sow's Milk**: Fat of —. O. Laxa, **1931**, 321.
- Soy Oil**: T. Takei, **1934**, 761.
- Soya Bean flour and pea flour**. D. Kaltschewa, **1933**, 162.
flour in manufactured foods; Detection of —. C. H. La Wall and J. W. E. Harrison, **1934**, 552.
flour in suet. **1935**, 35.
lecithin. F. Rothéa and F. Nielloux, **1934**, 117.
meal as coating for shredded suet. J. T. Dunn and H. C. L. Bloxham, **1935**, 320.
Oil content of nine varieties of — and the characteristics of the extracted oils. G. S. Jamieson, W. F. Baughman and R. S. McKinney, **1933**, 289.
proteins. M. Mashino, **1935**, 716.
Saponin from —. R. C. Burrell and E. D. Walters, **1935**, 186.
- Soya Bean Oil and the elaidin test**. **1934**, 315.
Colour measurement of —. **1935**, 453.
Composition of —. W. Kimura, **1930**, 703.
Constituents of the fatty acids of —. K. Hashi, **1928**, 343.
Fractional extraction of — and the drying properties of the fractions. T. Yamada, **1934**, 555.
Halogen absorption of —. **1929**, 446.
High-molecular fatty acids in linseed oil and —. J. Grossfeld, **1930**, 519.
Iodine value of unsaponifiable matter of —. **1930**, 8.
Isolation of dipalmito-olein from —. K. Hashi, **1928**, 343.
linseed oil in —; Detection of. J. F. Carrière, **1930**, 64.
Reactions of —. A. Richard, **1929**, 241.
- Soya Hispidia seed deprived of uricase**; Application of —. R. Fosse and Others, **1931**, 193.
- Spacu's Reaction**: Study of —. Volumetric determination of copper. J. Golse, **1931**, 272.
- Spacu's—continued**.
Volumetric determination of copper based on —. L. Cuny, **1931**, 551.
- Spanish paprika oil**; Iodine value of —. L. C. Mitchell and S. Alfend, **1929**, 44.
- Sparteine**: Determination of —. J. Hirt, **1929**, 672.
- Spas and Medicinal Waters**; International Register of —. **1931**, 745, 776.
- Spearmint adulterated with ailanthus**. **1934**, 819.
Examination of rubbed —. W. A. N. Markwell and A. E. Cross, **1935**, 748.
- Specific Gravity and Baumé Gravity Tables for Turpentine**. W. P. Smith and F. P. Veitch, **1930**, 604.
Apparent — and porosity. A comparison of various methods. G. M. Nave, **1927**, 367.
Determination of the strength of liquid hydrocyanic acid by —. M. Walker and C. J. Martin, **1926**, 202.
Electro-magnetic method of measuring —. L. R. Bishop, **1934**, 576.
Falling drop method for determining —. H. G. Barbour and W. F. Hamilton, **1926**, 596.
of corn (maize); Relation of protein content to —. **1926**, 519.
of fatty oils shipped in bulk. E. R. Bolton and K. A. Williams, **1935**, 158.
of fruits; Correlation between ripeness and —. **1926**, 520.
of potatoes; Correlation between total solids, starch content and —. **1926**, 520.
- Specific Rotation of wheat gliadin**. D. B. Dill and C. L. Alsberg, **1926**, 44.
- Specifications promulgated by the Federal Specifications Board**; Alphabetical Index and Numerical List of —. **1930**, 232.
- Spectra**: Absorption —. See **Absorption Spectra**.
- Spectral Analysis**. Collected references. F. Pavelka and H. Molterer, **1935**, 274.
Quantitative —. P. Urbain, **1931**, 67.
- Spectrograph**: Metallurgical Analysis by the —. (Review), D. M. Smith, **1934**, 208.
Use of — in metallurgical analysis. D. M. Smith, **1935**, 17.
- Spectrographic analysis of the various fluorescences of olive oil under ultra-violet radiation**. H. Marcelet and H. Debono, **1930**, 600.
analysis; Quantitative —. A. Schleicher and J. Clermont, **1932**, 66.
chemical analysis. H. Ramage, **1929**, 373.
study of carbon monoxide haemoglobin. A. K. Boor and A. Bachem, **1930**, 405.
- Spectrometers**: Types of —. **1935**, 4.
- Spectrophotometric analysis of the Lovibond colour glasses**. K. S. Gibson, F. K. Harris and I. G. Priest, **1928**, 460.
determination of nitrites and nitrates by diphenylamine sulphate. E. Tassilly and R. Savoire, **1927**, 107.
investigations (phenol tests). H. D. Gibbs, **1927**, 169.
method of determining vitamin A in oils. A. Chevallier and R. Chabre, **1933**, 487.
- Spectrophotometry**: absorption —. See **Absorption Spectrophotometry**.

- Spectro-Polarimeter** for the ultra-violet; Photographic —. A. Cotton and R. Descamps, 1926, 164.
- Spectroscope**: Féry — for the qualitative analysis of metals. 1929, 546.
Hartridge reversion — as a means of determining percentage saturation of carbon monoxide in blood. R. C. Frederick, 1931, 561.
- Spectroscopic** detection of fruit wine in wine. O. E. Kalberer, 1927, 482.
determination of platinum in silver alloys. H. de Laszlo, 1928, 177.
method of studying the formation of complex salts in dilute solution. Part 2. Y. Shibata and T. Inoue, 1928, 675.
observations on cod-liver oil. II, Absorption bands of cholesterol. F. W. Schlutz and M. R. Ziegler, 1926, 586.
studies on purified cholesterol. C. E. Bills, E. M. Honeywell and W. A. MacNair, 1928, 169.
study of the vibrations attributed to vitamin A. F. Wokes, 1928, 664.
- Spectroscopy**: (Review), E. C. C. Baly, 1927, 732.
applied to criminology. 1935, 14.
Detection and Investigation of Poisons by —. 1930, 232.
quantitative — and its analytical applications; Discussion on. J. J. Fox, 1935, 3; S. Judd Lewis, 1935, 10.
- Spectrum**: Absorption —. See **Absorption Spectrum**.
Analysis; Clinical and Pathological Application of —. (Review), Walther and Werner Gerlach, 1935, 204.
analysis; Instruments used for —. F. Twyman, 1935, 4.
Analysis with Hilger Instruments; The Practice of —. 4th Ed., 1930, 232.
Universal indicator which gives the colours of the — over a pH range of 3 to 11.5. H. W. Van Urk, 1929, 254.
- Spektroskopische und Radiometrische Analyse**. (Review), G. Scheibe, H. Mark and R. Ehrenberg, 1935, 63.
- Spelter**: Cadmium and copper in zinc ores and — determined by rapid internal electrolysis. E. M. Collin, 1930, 495.
cadmium in —; Determination of. A. Pass and A. M. Ward, 1933, 667.
- Sperm Oil** and whale oil, and spermaceti. E. André and T. François, 1926, 200.
Changes in — on blowing. 1926, 179.
Iodine value of —. 1933, 526.
Saturated aliphatic alcohols from spermaceti and —. E. André and T. François, 1926, 644.
Unsaturated aliphatic alcohols of —. E. André and M. T. François, 1927, 558.
- Sperm Whale**: Body oil from —. Y. Toyama, 1927, 726.
Mixed fatty acids in head and blubber oils of the —. T. P. Hilditch and J. A. Lovern, 1930, 352; II, Investigation of the component wax esters and general structure of the oils; III, Quantitative determination of the higher fatty alcohols present, 1930, 152.
- Sperma** in forensic cases; Detection of —. J. Peltzer, 1931, 198.
- Spermaceti** and sperm oil and whale oil. E. André and T. François, 1926, 200.
Saturated aliphatic alcohols from sperm oil and —. E. André and T. François, 1926, 644.
- Spices**: Boron compounds in —. 1929, 18.
Dutch regulations for —. 1932, 19.
essential oil in —; Determination of. C. Griebel, 1926, 584; T. T. Cocking and G. Middleton, 1932, 723.
Foodstuffs containing —. Vol. VI of *Handbuch der Lebensmittel-Chemie*. (Review), 1935, 345.
Pudding —. 1928, 153, 220.
rice flour in —; Detection and determination of. M. Wagenaar, 1928, 100.
Volatile oils determined in —. C. E. Sage and H. R. Fleck, 1934, 614.
- Spiders**: Edible —. 1934, 754.
- Spinacene**: Contribution to the study of the constitution of squalene (—). I. M. Heilbron, E. D. Kamm and W. M. Owens, 1926, 535.
Squalene and —. E. André and H. Canal, 1926, 48.
- Spinach fat**; Composition of —. J. H. Speer, E. C. Wise and M. C. Hart, 1929, 423.
Loss of vitamin A after drying canned —. G. S. Fraps and R. Treichler, 1934, 122.
Saponin from —. O. Dafert, 1931, 125.
vitamin C in —; Influence of manuring on. F. V. von Hahn and J. Görbing, 1933, 632.
Vitamins A and D of —. S. G. Willimott and F. Wokes, 1927, 652.
- Spiney Lobster**: Arsenic in —. 1926, 555.
- Spirit Tables** at 80°/80° F. F. G. H. Tate, (Review), 1933, 723.
tables for Use with Sikes's A and B Hydrometers. (Review), 1934, 444.
thermometers; Changes of zero in —. 1929, 291.
vinegar; Differentiation of wine vinegar from —. P. Rudolph and H. Barsch, 1932, 722.
- “**Spirit of Iodine**”: 1935, 406.
- Spirit of Nitro**: Analysis of —. L. Van Italie, A. J. Steenhauer and A. Harmsma, 1929, 244.
Sweet —. 1930, 751; 1931, 808.
- Spirits**: acetaldehyde in —; Determination of. P. Jaulmes and P. Espezel, 1935, 703.
distilled-; Rapid determination of alcohol in — and of colour in whisky. J. F. Williams, 1926, 583.
Isopropyl alcohol in — detected by means of piperonal. G. Reif, 1931, 115.
Misdescription of articles as beer or —. Finance Act, 1932. 1932, 577.
Motor —. See **Motor Spirits**.
Strength of — Ascertainment Regulations. 1933, 695.
Strength of — in Jersey. 1935, 405.
- Spirituos** preparations; Sale of medicated —. 1930, 393.
- Sponge Cake** mixtures. 1931, 658.
- Spontaneous Combustion** of Hay. C. A. Browne, 1930, 604.

- Spontaneous Ignition** of beech wood charcoal dust. E. Möhlau, **1932**, 675.
- Spore-bearing bacteria** in milk; Anaerobic ——. E. A. Bliss, **1926**, 589.
- Spurogenes** accessory factor. **1935**, 248.
- Spot Analysis.** (Review), F. Feigl, **1932**, 741. plate which can be heated. H. Fränkel, **1933**, 501.
- Spot Tests:** B.D.H. Reagents for ——. (Review), **1933**, 64; 3rd Ed., **1934**, 584; 4th Ed., **1935**, 504.
- for ammonium salts. F. Feigl, **1933**, 641.
- for ascorbic acid (vitamin C). H. Tauber, **1935**, 487, 629.
- for beryllium; New ——. A. S. Komarowsky and N. S. Poluektoff, **1934**, 575.
- for detecting free basic oxides in glass. F. Feigl, **1933**, 642.
- for mercurous ion. N. A. Tananajin, **1932**, 64.
- for nitrites. F. L. Hahn, **1932**, 65.
- for organic compounds. F. Feigl and Co-workers. I, **1935**, 56; II, **1935**, 57; III, **1935**, 123; IV, **1935**, 123; V, **1935**, 275; VI, **1935**, 342; VII, **1935**, 720.
- for potassium; New ——. N. S. Poluektoff, **1934**, 650.
- for some organic compounds. I. M. Korenman, **1933**, 371.
- New method of carrying out ——. J. Winkelmann, **1933**, 116.
- Qualitative Analysis by means of ——. (Review), F. Feigl, **1931**, 492.
- to distinguish calcite and aragonite. F. Feigl and H. Leitmeier, **1933**, 642.
- Spraying:** Determination of mineral oil retained by leaf surface after ——. L. H. Dawsey and A. J. Haas, **1933**, 299.
- sulphur suspensions used in ——. Evaluation of. R. M. Woodman, **1932**, 399.
- Sprengel Tube:** Improved form of ——. A. D. Gardiner, **1934**, 172.
- Springs:** hot — at Aachen and Aachen-Burtscheid; Bacterial activity in the. A. Brussoff, F. Reinartz and A. Schloemer, **1934**, 55.
- Hot — at Nasavusavu. C. H. Wright, **1926**, 235.
- Hot — of Palestine. **1932**, 40.
- pharmacology of peats and —; Observations on. Prof. Zörkendörfer, **1926**, 482.
- Spruce turpentine;** Borneol in —. A. S. Wheeler and C. R. Harris, **1926**, 49.
- Spumagen:** **1927**, 42.
- Squalene:** Comparison of properties of olive oil hydrocarbon and —. **1935**, 29.
- Contribution to the study of the constitution of —. I. M. Heilbron, E. D. Kamm and W. M. Owens, **1926**, 535.
- Fatty oil of the "pilgrim" whale. Biological relations between the cholesterol and —. E. André and H. Canal, **1929**, 605.
- Investigation of —. **1929**, 38.
- Spinacene and —. E. André and H. Canal, **1926**, 48.
- Squill:** Biological test for —. **1926**, 196.
- Oxymel of —. **1929**, 156.
- preparations; Bio-assay of —. **1926**, 43.
- Stafford:** Appointment of F. Dixon as Public Analyst and Deputy Agricultural Analyst for County of —. **1932**, 629.
- Stahre** reaction; Application of the — to the accurate determination of citric acid. B. G. Hartmann and F. Hillig, **1927**, 549.
- Stains:** Blood groups in —. **1926**, 16.
- blood, saliva and semen — in Indian criminal cases; Detection of. **1926**, 411.
- in the Gutzeit test for arsenic; Production of uniform —. A. S. Dodd, **1928**, 152; C. H. Manley, **1929**, 30.
- mildew and mould —; Removal of. **1932**, 166.
- seminal —; Identification of. S. Mallannah, **1927**, 399.
- Standardisation of biological —. **1934**, 180.
- Stamm's Reaction** as means of determining the rancidity of fats. S. Korpáczy, **1934**, 183.
- Stamping ink;** Strokes made with —. **1927**, 582.
- Stamps:** Examination of postage —. **1932**, 151.
- Standard samples.** Dept. of Commerce U.S.A. Bureau of Standards, Bulletin No. 25. **1927**, 661.
- solutions; New attachment for bottles used for storage of —. A. G. Lipscomb, **1928**, 645.
- specifications for solvents. **1935**, 104.
- Standardisation:** Bibliography on —. **1933**, 126.
- Colour glass —. D. B. Judd and G. K. Walker, **1928**, 180.
- of collodion membranes; Investigations into the calibration and —. I. C. Lundsgaard and S. A. Holbil, **1926**, 428.
- of colour. **1932**, 462.
- of combustion calorimeters; Benzoic acid as a standard for the —. P. E. Verkade, **1929**, 124.
- of iodine solutions; Use of hydrazine sulphate for the —. E. Cattelain, **1926**, 377.
- of methods for testing the fastness of dyes. A. Crummett, **1926**, 649; of dyed materials, **1935**, 43.
- of the Sandmeyer reaction with special applications. H. S. Fry and I. W. Grote, **1926**, 264.
- of wool. Henseler, **1927**, 103.
- Trichromatic colorimeter suitable for — work. J. Guild, **1927**, 50.
- Standard(s):** "Analar" — for Laboratory Chemicals. British Drug Houses. (Review), **1935**, 63.
- B.D.H. Book of — (Review), **1926**, 373.
- Bureau of —. Report for the year ending June 30th, 1929. **1930**, 131.
- Colour —; Dictionary of. (Review), **1934**, 724.
- Food — for Madras. H. Hawley, **1927**, 156.
- for baking powder. (Legal Notes), **1927**, 706.
- for beriberi-preventing rice. E. B. Vedder and R. T. Feliciano, **1928**, 542.
- for cheese. **1928**, 591.
- for "chemical food"; Question of a —. (Legal Notes), **1935**, 407.
- for cod-liver oil; Suggested —. **1931**, 534.
- for copper carbonate fungicide. **1934**, 825.

Standard(s)—*continued.*

for food products; U.S. Dept. of Agriculture
 • new and revised —. 1932, 656.
 for iodine absorption; The Wijs method as —.
 J. J. A. Wijs, 1929, 12.
 for jams, 1930, 694; 1931, 701; 1934, 312.
 for meats and malt wine. Bowker *v.* Wood-
 roffe. Bowker *v.* Premier Drug Co., Ltd.
 (Legal Notes), 1927, 80.
 for milk, butter, ghee and cheese in India.
 1927, 157.
 for milk pasteurisation. C. E. North and
 W. H. Park, 1927, 294.
 for milk under the Burma Food and Drugs
 Act, 1928; Investigations on —. E. H.
 • Bunce, 1932, 449.
 for purity and the determination of "ethyl"
 vanillin. • H. C. Lockwood, 1934, 730.
 for Reagent and "C.P." Chemicals. (Review),
 B. L. Murray, 1928, 563.
 for scientific glassware. 1935, 42.
 for silica; Colorimetric —. H. W. Swank
 and M. G. Mellon, 1934, 773.
 for toddy. 1931, 812.
 Vitamin —. 1935, 554.
 for vitamins; International —. 1932, 521;
 1935, 323.
 for vitamins. Report of the Permanent Com-
 mission on Biological Standardisation. 1932,
 173.
 for water in margarine. (Legal Notes), 1929,
 • 252.
 in alkalimetry; Adipic acid as an original
 —. F. T. Van Voorst, 1928, 353.
 measurements for mineral water analysis;
 International —. 1929, 33.
 Methods of Analysis: Bibliographies. I,
 Leather and Tanning Materials. 1927, 83;
 II, Beer and Brewing Materials. 1927, 235;
 III, Petroleum and Petroleum Products.
 1927, 347.
 of measurement. 1932, 461; 1935, 469.
 Picric acid as an artificial — in the colori-
 metric determination of silica. E. J.
 King and C. C. Lucas, 1928, 617.
 Potassium bi-iodate as a — substance in
 alkalimetric and iodometric titrations. I. M.
 Kolthoff and L. H. van Berk, 1927, 48.
 public utility —; Investigation of. 1930,
 132.
 under the Tea Act (U.S. Dept. of Agriculture
 Regulations). 1935, 413.
 U.S.A. Bureau of —. Bulletin No. 25,
 Standards Samples. 1927, 661.
 U.S.A. Bureau of —; Organisation and work
 of. G. K. Burgess, 1926, 319.
 See also **British Standards Institution.**
Stanley's wool manure. 1933, 225.
Stannic Sulphide: Adsorption of phosphoric
 acid by —. R. Chandelle, 1929, 769.
 Solubility of — in ammonia and ammonium
 carbonate. • P. A. Epik, 1932, 590.
Stannous Chloride: Determination of mercury
 with hydrazine or —. H. H. Willard and
 A. W. Boldyreff, 1930, 293.
Stannous Sulphide: Precipitation of tin as —.
 B. Linke and H. Preisacker, 1933, 780.
Staphylococcus cultures; Action of neon light
 on —. 1927, 98.

Staphylococcus Aureus: Changes produced in
 meat extracts by the bacterium —.
 F. W. Foreman and G. S. Graham Smith,
 1928, 338.
Star Anise Oil: Colour reaction distinguishing
 from aniseed oil and —. W. v. d. D.
 Mareeuw, 1926, 254.
 Distinction of aniseed oil from —. W.
 v. d. D. Mareeuw, 1927, 300.
Starch: Action of ethylene on pure —. H. E.
 Rea and R. D. Mullinix, 1927, 597.
 Application of the method of determin-
 ing small quantities of mixed reducing
 sugars to the determination of products of
 hydrolysis of — by takadiastase. E. M.
 Widdowson, 1931, 668.
 as adulterant of coffee. 1935, 179.
 Bread with "reduced" —. 1935, 102.
 cassava —; Fatty acids associated with.
 L. Lehrman, 1932, 527.
 Chemistry; Comprehensive Study of —.
 Vol. I. (Review), R. P. Walton, 1928, 561.
 Constitution of —. New method of acety-
 lation. W. S. Reich and A. F. Damanski,
 1933, 493.
 content of potatoes; Correlation between
 specific gravity, total solids and —.
 1926, 520.
 corn—; Hydrolysis of, by commercial
 pancreatin. J. H. Walton and H. R.
 Dittmar, 1927, 42.
 corn—; Occurrence of gentiobiose in the
 products of the commercial hydrolysis of.
 H. Berlin, 1926, 635.
 corn—; Unsaturated fatty acids associated
 with. T. C. Taylor and L. Lehrman, 1926,
 464.
 enzymic hydrolysis of —; Separation of
 products resulting from the. J. L. Baker and
 H. F. E. Hulton, 1935, 765.
 from *Zamia furfuracea*. 1935, 46.
 in cereal products; Determination of —.
 C. W. Herd and D. W. Kent-Jones, 1931,
 184; E. H. Hall, 1932, 41.
 in feeding stuffs; Determination of —.
 G. S. Fraps, 1932, 526.
 in finished goods and yarns; Determination
 of —. D. A. Derrett-Smith, 1931, 131.
 in marzipan substitutes; Polarimetric deter-
 mination of —. A. Gronover and E.
 Wohnlich, 1927, 481.
 in paprika adulterated with flour; Deter-
 mination of —. D. Kőszegi and N.
 Tomori, 1934, 494.
 in pastry; Polarimetric determination of
 —. J. Grossfeld, 1927, 420.
 in pectin and apple juices; Determination of
 — by a sedimentic method. H. Eckart
 and A. Diem, 1926, 524.
 in potatoes; Determination of —. C.
 Rankoff, 1927, 419.
 in potted meat. 1930, 13.
 in potted salmon. 1932, 714.
 in flour; Determination of — by diastase
 and acid hydrolysis. B. G. Hartmann and
 F. Hillig, 1931, 322.
 in sized and finished cotton goods; Deter-
 mination of —. R. G. Fargher and L. V.
 Lecomber, 1931, 825.

Starch—*continued*.

- Iodine colorimetric method for determining —. L. Paloheimo, **1930**, 767.
- iodine method for determining —; A new. J. J. Chinoy, F. W. Edwards and H. R. Nanji, **1934**, 673.
- Its Chemistry, Technology and Uses. (Review), L. Eynon and J. H. Lane, **1929**, 373.
- maize — added as adulterant to egg powder; Separation of. Comte, **1930**, 200.
- maize —; Properties of. Removal of combined fatty acids. T. C. Taylor and J. H. Wertz, **1927**, 480.
- Making. (Review), F. Rehwal, **1927**, 177.
- Microbiology of Sugars and —. (Review), A. C. Thaysen and L. D. Galloway, **1930**, 604, 723.
- of certain hard-woods. I, Preparation and properties of oak and walnut —. W. G. Campbell, **1935**, 572.
- paste; Identification of —. **1932**, 654.
- potato—; Quantitative determination of the composition of — according to size of granule. G. Bredemann and O. Nerling, **1930**, 220.
- Preparation of soluble — and an improved polarimetric Lintner method. H. C. Gore, **1928**, 613.
- products; Dutch regulations for —. **1932**, 20.
- Rapid method for determining —. O. S. Rask, **1927**, 290.
- rice —; Fatty acids associated with. L. Lehrman, **1929**, 548.
- solution for use in iodimetric titrations; Preparation of —. C. L. Alsberg, E. P. Griffing and J. Field, **1926**, 371.
- sugar degradation products; Analysis of — by selective fermentation. T. McLachlan, **1928**, 583.
- Sulphite in —. **1928**, 134.
- sulphur dioxide in —; Determination of. **1927**, 353; **1928**, 124.
- Sweet potato —, in cornflour and arrowroot. J. R. Stubbs, **1926**, 400.
- taka-diastase method for determining —; Note on the. J. J. Chinoy, F. W. Edwards and H. R. Nanji, **1934**, 671.
- Variations in properties of —. **1935**, 177.
- Starches**: Behaviour of different — towards dyestuffs and iodine. J. Hübner and K. Venkataraman, **1926**, 351; II, **1927**, 37.
- Photomicrographs of Philippine —. R. N. Allen, **1929**, 686, 744.
- Starch-iodine Colour** in the determination of traces of thallium. **1935**, 395.
- Starch-iodine Reactions**: Studies on the —. J. Field, **1931**, 612.
- Starching**: Fat of the Japanese —. **1928**, 543.
- Starting Properties** of motor fuels; Laboratory method of determining the —. W. G. Lovell, J. D. Coleman and T. A. Boyd, **1927**, 306.
- Steam distillates**; Apparatus for separation and measurement of —. W. H. Simmons and C. A. Hills, **1933**, 396.
- Steam-Distillation apparatus**. J. A. Radley, **1933**, 153.
- Stearate method** of titrating ammonium sulphate. H. Atkinson, **1926**, 140.
- Stearic Acid**: Purification of —. A. J. Wilkie, **1928**, 109.
- Stearines**: Analysis of oleines and —. V. Boulez, **1933**, 50.
- Stearolic Acid**: Iodine value of — by the Wijs and Rosenmund-Kuhnemann methods. Y. Toyama and T. Tutiya, **1935**, 334.
- Steel**: aluminium in —; Determination of. A. T. Etheridge, **1929**, 141.
- Aluminium in nitriding — determined by the use of 8-hydroxyquinoline. H. A. Bright and R. M. Fowler, **1933**, 498.
- analysis; New precipitation method of determining vanadium and its application to —. B. S. Evans and S. G. Clarke, **1928**, 475.
- arsenic in alloy —; Determination of. **1929**, 528.
- arsenic in carbon —; Determination of. **1929**, 527.
- beryllium in —; Determination of. F. Spindeck, **1930**, 347.
- beryllium in alloy —; Determination of. H. Eckstein, **1932**, 270.
- carbon in high-sulphur —, determined by direct combustion. H. A. Bright and G. E. F. Lundell, **1931**, 205.
- cerium in alloy —; Determination of. K. Swoboda and R. Horny, **1926**, 215.
- chromium in —; Determination of traces of. W. J. Agnew, **1931**, 24.
- chromium in —; Electrometric titration of. F. Spindeck, **1931**, 64.
- chromium in stainless —; Determination of. G. F. and G. P. Smith, **1935**, 574.
- copper in copper-molybdenum —; Determination of. H. A. Kar, **1935**, 495.
- cobalt in magnet and high-speed tool —; Determination of. J. I. Hoffman, **1932**, 671.
- cobalt in —; Determination of. E. Bertrand, **1930**, 346; of minute amounts of —. W. J. Agnew, **1928**, 31.
- Corrosion-resisting — for laboratory use. G. A. Stokes, **1929**, 538.
- Manganese in — determined by the Proctor-Smith reaction in presence of phosphoric acid. B. C. Mukerjee, **1927**, 689.
- Manganese in — determined volumetrically. **1931**, 831.
- Micro-analysis of —. J. Kassler, **1930**, 772.
- molybdenum in —; Determination of. E. Färber, **1927**, 303; E. Bertrand, **1932**, 406; W. Werz, **1935**, 340.
- molybdenum in alloy —; Determination of. W. Hertz, **1930**, 411.
- nickel in —; Determination of small amounts of. B. Jones, **1929**, 582.
- Nitrogen in — determined by the vacuum fusion method. H. C. Vacher and L. Jordan, **1932**, 60.
- oxides in —; Iodine method of determining. T. E. Rooney and A. G. Stapleton, **1935**, 637.
- Oxygen in — determined by the vacuum fusion method. H. C. Vacher and L. Jordan, **1932**, 60.

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- phosphorus in —; Determination of. A. T. Etheridge, **1931**, 14, (*see also* List of Errata), 454; N. D. Ridsdale, **1931**, 452.
- phosphorus in small samples of —; Determination of. S. G. Clarke, **1931**, 518.
- Structure. Research Board report. **1935**, 176.
- Sulphur determination by the evolution process in cast iron and —. N. D. Ridsdale, **1929**, 166.
- sulphur in alloy —; Note on the determination of. T. E. Rooney, **1934**, 278.
- sulphur in high chromium —; Rapid method for determining. B. S. Evans, **1929**, 286.
- sulphur in small samples of —; Determination of. A method for the determination of small quantities of hydrogen sulphide. S. G. Clarke, **1931**, 436.
- tin coatings on —; Rapid test of thickness of. S. G. Clarke, **1934**, 525.
- tin in —; Determination of. J. A. Scherrer, **1932**, 473.
- Tin in — determined by means of sodium hydrosulphite. B. S. Evans, **1932**, 362.
- titanium in —; Determination of. T. R. Cunningham, **1933**, 715.
- titanium in alloy —; Determination of. J. Agard, **1932**, 672.
- Tungsten in — determined as hydrated tungstic acid. H. Wdowiszewski, **1932**, 196.
- tungsten in high speed tool —; Rapid determination of. W. Brüggermann, **1930**, 155.
- vanadium in —; Determination of. A. T. Etheridge, **1928**, 423; F. Ibbotson, **1928**, 531; K. Swoboda, **1929**, 122.
- Vanadium in — determined according to the potentiometric titration method of Thanheiser and Dickens. P. L. Blanken, **1932**, 475.
- vanadium in —; Iodimetric determination of. K. Roesch and W. Werz, **1928**, 354.
- vanadium in alloy —; Determination of. H. H. Willard and P. Young, **1932**, 407.
- vanadium in alloy —; Revision of the new iodimetric determination of. W. Werz, **1931**, 339.
- vanadium in ferrovanadium and alloy —; Iodimetric determination of. W. Werz, **1930**, 769; **1931**, 339
- Zinc determined in —. H. A. Bright, **1934**, 572.
- Zirconium in —; Determination of. S. G. Simpson and W. C. Schumb, **1933**, 497.
- Zirconium in — determined by means of selenious acid. S. G. Simpson and W. C. Schumb, **1933**, 243.
- Steels** at high temperatures. **1935**, 471.
- Chemical Analysis of Special —. 4th Ed. (Review). C. H. Johnson, **1931**, 213.
- Steiger-Merwin Reaction** for determining small quantities of fluorine. H. J. Wichmann and D. Dahle, **1934**, 132.
- Stepney**: Average composition of milk in Borough of —. **1929**, 467.

Stepney—continued.

- Report of the Borough Analyst (D. Henville) for 1925, **1926**, 513; for 1926, **1928**, 92; for 1927, **1928**, 491; for 1928, **1929**, 540; for 1929, **1931**, 30; for 1930, **1931**, 741; for 1931, **1933**, 96; for 1934, **1935**, 552.
- Stercobilin**: Isolation of crystalline —. C. J. Watson, **1934**, 557.
- Stereoisomer** of elaeostearic acid from the seed oil of karasu-uri. Y. Toyama and T. Tsuchiya, **1935**, 571.
- of elaeostearic acid in pomegranate seed oil. Y. Toyama and T. Tsuchiya, **1935**, 570.
- Sterilisation**: Stability of evaporated milk during —. A. G. Benton and H. G. Albery, **1926**, 413.
- Water — by Gaseous Chlorine. (Review), **1926**, 545.
- Water —. Imperial Chemical Industries, Ltd. **1934**, 728.
- Sterling Fluctuation Tables**; Kingston's —. **1934**, 310.
- Sterol** colour reactions in the irrelation to vitamin A. O. Rosenheim, **1927**, 423.
- content and antirachitic activability of mould mucella. L. M. Pruess, W. H. Peterson, H. Steenbock and E. B. Fred, **1931**, 196.
- fractions; Activation of — by ultra-violet irradiation. A. F. Hess and R. J. Anderson, **1927**, 653.
- group; Studies in the —. VIII, Reaction of isoergosterol. I. M. Heilbron and F. S. Spring, **1930**, 211.
- iodine value of oils and fats: Preliminary notes on — by the Bolton and Williams method. A. C. Bose, **1935**, 160.
- of yeast; Dextro-rotatory —. Zymosterol. H. Penau and G. Tanret, **1929**, 431.
- Sterols**: Action of selenious anhydride on —. E. Montignie, **1932**, 328.
- Allophanates of certain —. U. Tange and E. V. McCollum, **1928**, 232.
- and related substances; Review of recent developments in chemistry of —. **1935**, 248.
- Application of the Liebermann and Burchard reaction to the differentiation of animal from vegetable —. R. Meesemaeker and H. Griffon, **1930**, 588.
- Biological study of —. Sterols of plankton. G. Belloc, R. Fabre and H. Simmonet, **1930**, 587.
- Colour reactions of —. E. Montignie, **1932**, 588.
- Colour reactions of — with nitric acid. O. Rosenheim and R. K. Callow, **1931**, 472.
- Colour reactions and absorptions spectra of — in relation to structure. I. M. Heilbron and F. S. Spring, **1930**, 402.
- Colour tests for — and vitamin A. —. Sterol test, F. Wokes, **1928**, 550; II, Spectroscopic study of the vibrations attributed to vitamin A. F. Wokes, **1928**, 664.
- Detection and determination of small amounts of cholesterol and other —. Collected references. A. Wasitzky, **1934**, 438.
- from muscular tissue of marine animals. **1929**, 36, 37.

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- Halogen absorption of —. 1930, 5.
in butter. A. More, 1929, 735.
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of cacao. H. Labbé, H. de Balsac and R.
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of ergot. M. C. Hart and F. W. Heyl, 1930,
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of molluscs. W. Bergmann, 1934, 294.
Oxidation of oils in presence of irradiated
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Photochemical action of various —. L.
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Relationship of carcinogenic hydrocarbons to
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separation of — from vitamin-D-containing
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Stibine: Determination of small quantities of
antimony in the form of —. J. Grant
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Stibiotantalite: 1932, 285.

Stibnite Sulphur in ores; Determination of —.
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Stillingia tallow; Component glycerides of —.
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Stilton Cheese: Acidity of —. W. Partridge,
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Stirrer: Modified liquid sealed mechanical —.
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Stockholm papyrus; The —. E. R. Caley,
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Stockport: Appointment of T. R. Hodgson as
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Stoke-on-Trent: Appointment of F. Dixon as
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Appointment of E. V. Jones as Public Analyst
for Borough of —. 1934, 108.

Stomach contents; Detection and determination
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contents; Rapid determination of opium in
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preparations; Vitamin B content of commer-
cial —. E. Gilroy, 1932, 120.

Stomach Oil of *Scymnorhinus Lichia*; Note on
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Stomatal Numbers: Their value for distinguish-
ing plant species. H. A. Timmerman,
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Stone and stone-working in ancient Egypt.
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Preservation Committee; Report of the
—. 1927, 645.

Preservation of —. 1932, 478.

Relation of micro-organisms to the decay of
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Weathering of building —. 1934, 755.

Stoppers: Device for preventing loss of —.
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Storage: black rot of sweet potatoes in —;
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Changes in the composition of the potato
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Effect of — on pyrethrum flowers. C. B.
Unadinger and C. S. Corl, 1932, 661.

Effect of — on the antirachitic factor of
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grains. E. B. Hart, H. Steenbock and
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Effect of — on vitamin A in dried foods.
G. S. Fraps and R. Treichler, 1933, 416.

of eggs. (Food Investigation Board Report,
No. 26), 1926, 247.

of ergosterol; Deteriorating effect of varying
—. L. R. Ellison and G. F. Hall, 1935,
92.

of New Zealand lamb. E. Griffiths, J. R.
Vickery and N. E. Holmes, 1932, 574.

of pork and bacon in gas. Part 1, E. H.
Callow, 1932, 384.

of vitamin A; Quantitative study of —.
H. C. Sherman and M. L. Cammack, 1926,
360.

sweetened condensed milk in which the
sucrose has altered during —; Analysis
of. 1932, 630. (Erratum: 1933, 30).

Stovaine: Detection and determination of —.
J. A. Sanchez, 1934, 634.

Straits Settlements: Report of the Government
Analyst (J. C. Cowap) for the year 1929,
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1934, 490; for 1934, 1935, 472.

Stramonium: Assay of — leaves and tincture
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Strawberries: Analyses of —. L. H. Lampitt
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apple juice in pure fruit preserves (cherries
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Bacteriological examination of —. 1933,
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Vitamins in tinned —. E. F. Kohmann,
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Strawberry jam; Analysis of Canadian —.
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juice; Refractometric studies on —.
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Streptococci: Cultivation of —. H. Haxt-
hausen, 1927, 604.

in milk, 1927, 120.

Phosphates and the growth of —. (Studies
in bacterial nutrition, III.) H. R. White-
head, 1927, 243.

Streptococcus cultures; Action of neon light
on —. 1927, 98.

Streptothrix: Relation of vitamin B to the
growth-promoting factor for a —. R. A.
Peters, H. W. Kinnersley, J. Orr-Ewing
and V. Reader, 1928, 394.

Streptothrix Corallinus in the determination
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- Strokes** in blotted writing; Sequence of —. A. S. Osborn, 1928, 35.
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- Strontium**: Atomic weight of —. 1928, 160; 1929, 295; 1934, 547.
Detection and determination of barium, calcium and —. O. Macchia, 1928, 353.
Detection of — in systematic qualitative analysis. J. and H. Brintzinger, 1933, 745.
Determination of barium and —. L. Szebellédy, 1929, 682.
Differentiation from barium. 1934, 776.
Separation of beryllium from —. 1929, 367.
- Strontium Oxalate**: J. Haslam, 1935, 668.
- Strontium Sulphate**: Microchemical test for —. 1934, 731.
- Strophanthin**: Colorimetric determination of —. A. Leulier and H. Griffon, 1929, 672.
XV. Hispidus Strophanthin. W. A. Jacobs and A. Hoffmann, 1928, 660.
of *Strophanthus Emini*. W. A. Jacobs and N. M. Bigelow, 1933, 165; J. D. Lamb and S. Smith, 1935, 483.
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- Strophanthus**: Average strength of —. 1930, 196.
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Pharmacopoeia Commission Report on —. 1932, 32.
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- Strophanthus Emini** Strophanthins of —. W. A. Jacobs and N. M. Bigelow, 1933, 165; J. D. Lamb and S. Smith, 1935, 483.
- Strophanthus Oil**: Thiocyanogen value of —. E. Van Italie, 1929, 606.
- Struvite** (magnesium ammonium phosphate) in canned salmon. L. H. James, 1933, 222; C. H. Manley, 1933, 337.
- Strychnine** alkaloid in strychnine sulphate tablets; Assay of —. F. J. Amrhein, 1934, 355.
Determination of — as silicotungstate. E. Stuber and B. Kijatschkina, 1928, 605.
in Easton's Syrup; Determination of —. L. A. Haddock and N. Evers, 1931, 674; 1932, 44.
in poisoned grains; Determination of —. J. W. Elmore, 1926, 470.
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Microchemical characterisation of cocaine and —. V. Arreguine and F. Amadeo, 1930, 519.
Microchemical test for —. 1934, 137.
Micro-detection of —. 1930, 474.
Proof of fatal dose of —. V. Mount, 1926, 531.
quinine in presence of —; Determination of. 1931, 717.
- Strychnine Hydrochloride** Composition and solubility of —. J. E. Driver and S. P. Thompson, 1928, 544.
- Strychnine Phosphomolybdate**: Composition of —. C. Antoniani, 1928, 605.
Microchemical determination of phosphoric acid as —. C. Antoniani and R. E. Jona, 1928, 405.
- Strychnine Sulphate**: Quantitative determination of osmium by means of —. S. C. Ogburn, Junr, and L. F. Miller, 1930, 222.
tablets; Assay of strychnine alkaloid in —. F. J. Amrhein, 1934, 355.
Water in —. W. Schnellbach, 1929, 672.
- Strychno-Molybdic Method**: Application of the — to the determination of phosphoric acid in soil. C. Antoniani and S. Bonetti, 1929, 485.
- Strychnos** seeds; Strychnine in —. 1934, 754.
- Students**: Manual of Organic Chemical Analysis. Qualitative and Quantitative, for —. (Review), J. F. Thorpe and M. A. Whiteley, 1926, 55; 1927, 312.
of Biological Sciences; Biochemical Laboratory Methods for —. (Review), C. A. Morrow, 1928, 357.
of Medicine and Biology; Practical Physical and Colloidal Chemistry for —. (Review), L. Michaelis, 1926, 221.
of Medicine and Science; Textbook of Biochemistry for —. (Review), A. T. Cameron, 1928, 358.
of Pharmacognosy; Elementary Textbook for —. (Review), J. E. Driver and G. E. Trease, 1928, 513.
of Pharmacy; Textbook of Inorganic Pharmaceutical Chemistry for Pharmacists and —. (Review), C. H. Rogers, 1930, 602.
- Styrolenes**: Preparation of —. S. Sabetay, 1929, 253.
- Sublimation** temperatures of twelve amino-acids. J. W. Brown, 1933, 117.
Vacuum — under the microscope. L. Kofler and W. Dernbach, 1932, 336.
- Submarine** batteries; Acid for —. 1930, 755.
- Succinamidomethylamide-p-Arsonic Acid**: Preparation of —. 1935, 176.
- Succinic Acid** in blood; Determination of —. P. W. Clutterbuck, 1928, 549.
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in wines and other fermented liquids; Determination of —. L. Semichon and Flanzly, 1932, 721.
- Sucrose** activity; Method for determining —. J. B. Sumner and S. F. Howell, 1935, 194.
in must and wine; Occurrence of —. C. von der Heide and H. Mändlen, 1929, 355.
- Sucrose**: Analysis of condensed milk in which the — has altered during storage. (Milk Products Sub-Committee Report No. 3.) 1932, 630. (Erratum) 1933, 30.
Clerget-invertase hydrolysis constants of raffinose and —. H. S. Paine and R. T. Balch, 1927, 350.
Detection and determination of — by the ammonium molybdate method. N. W. Matthews, 1929, 43.
Determination of fructose, inulin and —. W. R. Campbell and M. I. Hanna, 1926, 582.

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- dextrose, laevulose and invert sugar in absence and presence of —; Determination of small amounts of. R. B. Whitmoyer, **1934**, 702.
- in beer; Determination of —. II, J. Fiehe, **1932**, 254.
- in lactose; Detection of —. M. Wagenaar, **1934**, 573.
- in mixture of milk and —; Polarimetric determination of. G. W. Monier-Williams, **1928**, 569.
- in sweetened condensed milk; Determination of. (Milk Products Sub-Committee Report No. 2.) **1930**, 111.
- in sweetened condensed milk; Determination of lactose, invert sugar and —. Public Health Report No. 57. G. W. Monier-Williams, **1930**, 573.
- in sweetened condensed milk; Polarimetric determination of —. P. Honegger, **1926**, 496; H. D. Richmond, **1927**, 525.
- in sweetened milks; Determination of —. **1927**, 682.
- lactose in presence of —; Volumetric determination of. J. H. Lane and L. Eynon, **1928**, 43.
- laevulose in presence of —; Micro-method for detecting and determining. F. Fischl, **1933**, 424. Erratum, **1933**, 570.
- Measurement of the ionimetric acidity by the inversion of sucrose. Application to complex media. V. Vincent, **1927**, 249.
- Micro-organisms used in analysis of —. **1934**, 54.
- Oxidation of — by means of chloramine and iodide. **1927**, 673.
- Quantitative determination of laevulose and —. J. Fiehe, **1932**, 385.
- Sulphites in —. **1928**, 134.
- Sucrose Octa-acetate** as a compulsory denaturant for rubbing alcohol. **1935**, 560.
- Suet**: Cereal flour in —. **1927**, 703.
- Fat in shredded —. **1931**, 778; **1935**, 35.
- Labelling of beef —. **1930**, 388; **1931**, 313, 740; **1933**, 224.
- Rice flour in shredded —. (Legal Notes), **1927**, 281.
- Shredded —. **1931**, 658; (Legal Notes), **1928**, 156.
- shredded —: A new material used for coating. J. T. Dunn and H. C. L. Bloxam, **1935**, 320.
- Shredded beef —. **1929**, 539.
- Soya bean flour in —. **1935**, 35.
- Sugar** analysis; Determination of cuprous oxide produced in —. C. S. Bisson and J. G. Sewell, **1927**, 289.
- Analysis; International Commission for Uniform Methods of —. British National Committee Report, **1935**, **1935**, 411; Report of Proceedings of Eighth Session, **1933**, 156.
- analysis; Use of some micro-organisms in —. V. J. Harding and T. F. Nicholson, **1934**, 54.
- blood —; Determination of. II, S. R. Benedict, **1928**, 230.

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- blood — method; New. O. Folin, **1928**, 392.
- blood —; Note on the new ferricyanide method for. O. Folin, **1929**, 246.
- blood — values; Correction of Folin-Wu. B. L. Oser and W. G. Karr, **1926**, 258.
- cane —; Colouring substances of. I. Sakuma and I. Momose, **1935**, 479.
- Cane — containing formic acid. **1931**, 600
- Cane — in canning. **1935**, 695.
- cane —; Manganese in. **1929**, 348.
- Cane — Manufacturers and their Chemists; Handbook for. 7th Ed. (Review), G. L. Spencer, **1930**, 419.
- cane —; Presence of manganese in. P. Riou and J. Delorme, **1935**, 711.
- cane —; Thermophilic bacteria in refined. W. L. Owen and R. L. Mobley, **1932**, 732.
- confectionery; Mineral matter in —. **1932**, 30.
- content of water-melons and other types of melon. S. N. Lutochip, **1928**, 101.
- dermatitis. (Legal Notes), **1927**, 283.
- determinations; Notes on —. M. Somogyi, **1927**, 38.
- Dutch regulations for —. **1932**, 19.
- Dye —. **1935**, 686.
- factory products; Determination of sulphur dioxide in —. J. P. Ogilvie, **1927**, 92.
- Formic acid in —. **1935**, 612.
- in blood and cerebrospinal fluid; Comparison of the Folin-Wu and the new Benedict method for —. J. D. Lytle and J. E. Hearn, **1926**, 466.
- in blood and in normal urine; Determination of —. O. Folin, **1926**, 309; S. R. Benedict, **1926**, 467.
- in blood; Application of the iodimetric method to the determination of —. H. Bierry, B. Gouzon and C. Magnan, **1933**, 354.
- in blood; Determination of. I. Observations upon Benedict's alkaline copper solution. M. R. Everett, **1929**, 430.
- in blood of fish, eels and turtles. C. M. McCay, **1931**, 263.
- in blood (plasma, etc.); Volumetric micro-determination of —. F. Rappaport and R. Pistiner, **1935**, 199.
- in opium; Determination of total alkaloids, oily substances and —. J. N. Rakshit, **1926**, 491.
- in red wines; Determination of residual —. J. Dubaquié and G. Debordes, **1932**, 110.
- in soap and soap preparations; Determination of —. K. Braun and E. Walter, **1929**, 767.
- in sweetened condensed milk; Calculation of —. **1926**, 498.
- in urine; A more specific reagent for determination of —. J. B. Sumner, **1926**, 45.
- in urine and other solutions; Use of Benedict's solution in the micro-detection of —. H. Tauber, **1934**, 648.
- Influence of — on the determination of ammonia in grape must. J. Ventre and E. Bouffard, **1936**, 352, 353.
- Invert —. A. R. Ling and W. A. Carter, **1930**, 730.

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- invert — as a reagent for boric acid determinations. J. A. M. van Liempot, **1926**, 293; G. van B. Gilmour, **1926**, 404.
- invert — in honey; Modification of the Fiehe test for detecting. E. K. Nelson, **1929**, 603.
- invert — in presence and absence of sucrose; Determination of small amounts of. R. B. Whitmoyer, **1934**, 702.
- invert — in raw sugars; Determination of small proportions of. L. Eynon and J. H. Lane, **1931**, 322.
- invert — in sweetened condensed milk; Determination of sucrose, lactose and. Public Health Report No. 57. G. W. Monier-Williams, **1930**, 573.
- invert —; New reagent for eliminating the interference due to calcium in the volumetric Fehling's titration of. J. G. N. Gaskin, **1935**, 318.
- Iron and thorium precipitation of biological fluids for —. A. Steiner, F. Urban and E. S. West, **1933**, 46.
- lice. **1932**, 629.
- mixtures; Fermentation of — by Sauterne yeast. H. Sobotka and M. Reiner, **1931**, 267.
- moisture in —; Alleged loss of. **1929**, 539. of normal and starvation urine; Chemical nature of fermentable —. E. S. West and Steiner, **1933**, 233.
- particles in chocolate; Enumeration of —. **1933**, 443.
- Properties of adipone, a cyclic —. G. P. G. Moëys and N. Schoorl, **1934**, 770.
- reagent; Effect of potassium iodide in the Shaffer-Hartmann micro —. W. A. de Long, **1927**, 350.
- Reducing non-sugars and true — in human blood. M. Somogyi, **1927**, 719.
- solutions decomposed by alkali; Determination of lactic acid in —. T. E. Friedemann, **1928**, 164.
- solutions; Measurement and significance of the surface tension of —. P. Honig, **1926**, 427.
- solutions (wines); Clearing of — by mercuric salts. L. Semichon and Flanzly, **1926**, 352.
- standardisation. **1930**, 132.
- Starch — degradation products analysed by selective fermentation. T. McLachlan, **1928**, 583.
- Sulphites in —. **1928**, 134.
- sulphur dioxide content in mixtures of — and corn syrup; Effect of the rate of boiling on the residual. Also the effect of bleaches containing sulphur dioxide. R. H. Morgan, **1931**, 638.
- sulphur dioxide content of corn syrup in mixtures of — and corn syrup; Effect of temperature on. R. H. Morgan, **1930**, 488.
- sulphur dioxide in —; Determination of. **1927**, 353.
- Tricalcium phosphate as a caking inhibitor in —. H. V. Moss, T. W. Schilb and W. G. Warning, **1933**, 232.

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- Characterisation of aldehydic and ketonic — by oxidation with bromine. F. Zanelli, **1932**, 106.
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- Fermentation of rare — by members of the colon-aerogenes groups of bacteria. I, Trehalose. C. F. Poe and J. T. Field, **1933**, 106.
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- Micro method for determining —. K. Linderström-Lang and H. Holter, **1923**, 568.
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Symbols in Chemistry. An Historical Study. (Review), R. M. Caven and J. A. Cranston, 1928, 677.

Inorganic Chemical — and other useful Chemical Data. (Review), E. R. Darling, 1927, 502.

Synonyms: Chemical — and Trade Names. (Review), W. Gardner, 1926, 654.

Synthalin as possible substitute for insulin. 1928, 287.

Syntheses: Organic —. (Review). Vol. IV, O. Kamm, 1926, 55; Vol. V, C. S. Marvel, 1926, 380; Vol. VI, H. Gilman, 1926, 653; Vol. VII, F. C. Whitmore, 1928, 514; Vols. VIII and IX, R. Adams and J. B. Conant, 1929, 443; Vol. X, H. T. Clarke, 1930, 720; Vol. XI, H. Gilman, 1932, 675; Vol. XII, F. C. Whitmore, 1933, 250; Vol. XIII, W. H. Carothers, 1933, 574; Vol. XIV, W. W. Hartman, 1934, 723; Vol. XV, W. H. Carothers, 1935, 737.

Synthesis of benzene derivatives. (Review), S. C. Bates, 1926, 430.

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Rubber. (Review), S. P. Shtotz, 1926, 653.

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- Simpson's process for tantalum in —. **1931**, 795.

- Tantalum**: analytical chemistry of niobium, — and their mineral associates; Investigations into the; VI, The precipitation of the earth acids by sodium compounds, W. R. Schoeller and C. Jahn, **1926**, 613; VII, Precipitation of tungstic acid by tannin; VIII, Separation of tungsten from tantalum and niobium. W. R. Schoeller and C. Jahn, **1927**, 504; IX, Separation of titanium from tantalum and niobium. W. R. Schoeller and E. C. Deering, **1927**, 625; X, Separation of silica from earth acids; XI, Precipitation of titanium by tannin. W. R. Schoeller and A. R. Powell, **1928**, 258; XII, Observations on the pyrosulphate-hydrolysis method. W. R. Schoeller and E. F. Waterhouse, **1928**, 467; XIII, New method of separation of zirconium and hafnium from niobium and —. W. R. Schoeller and E. F. Waterhouse, **1928**, 515; XIV, A new method for separating small quantities of niobium and — from titanium. W. R. Schoeller and C. Jahn, **1929**, 320; XV, A new method for separating — and niobium from titanium and zirconium. W. R. Schoeller, **1929**, 453; XVI, Observations on tartaric hydrolysis; XVII, Quantitative precipitation on the earth acids and certain other oxides from tartrate solution. W. R. Schoeller and H. W. Webb, **1929**, 704;

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- New separation methods for —. L. Moser and W. Reif, **1930**, 409.
- poisoning. **1934**, 752.
- Reaction of aluminum with hydroxides of scandium, gallium, indium, germanium and —. R. B. Corey and H. W. Rogers, **1927**, 172.
- Separation of beryllium from —. **1929**, 367.

Thallium—continued.

- Starch-iodine colour in the determination of traces of —. **1935**, 395.
- Stimulation of yeast growth by —, a "bios" impurity of asparagine. O. W. Richards, **1932**, 663.
- Toxicology of —. G. R. Lynch and J. M. S. Scovell, **1931**, 268.
- Volumetric determination of — with ceric sulphate. H. H. Willard and P. Young, **1930**, 217.
- Thallium Sulphate poisoning.** **1933**, 547.
- Thallium Tri-Iodide:** **1929**, 464.
- Thalious Salts:** Analysis of —. **1929**, 463.
- Direct titration of — by potassium iodate. A. J. Berry, **1926**, 137.
- Titration of — with permanganate in hydrochloric acid solution. A. Jilek and J. Lukas, **1929**, 255.
- Thalious Thiocarbonate:** Preparation and properties of —. M. Picon, **1933**, 111.
- Thanheiser and Dickens** potentiometric method; Determination of vanadium in steel according to —. P. L. Blanken, **1932**, 475.
- Thebaine:** Bromine as a reagent in determining —. **1931**, 727.
- Methyl red as indicator for —. **1926**, 316.
- Theobromine** in diuretic; Quantitative methods for determining —. J. M. A. Hegland, **1932**, 725.
- in guarana; Existence and distribution of —. G. Bertrand and P. de B. Carneiro, **1932**, 388.
- in pharmaceutical preparations determined by Boie's method. H. J. Van Giffen, **1933**, 101.
- Microchemical reactions of —. M. Wageenaar, **1929**, 244.
- Quantitative methylation of — and its determination in theobromine sodium salicylate. P. A. W. Self and W. R. Rankin, **1931**, 674.
- Theobromine Sodium Salicylate:** Determination of theobromine in —. P. A. W. Self and W. R. Rankin, **1931**, 674.
- Theophylline:** Quantitative methylation of —, and its determination in theophylline sodium acetate. P. A. W. Self and W. R. Rankin, **1931**, 674.
- Theophylline Sodium Acetate:** Determination of theophylline in —. P. A. W. Self and W. R. Rankin, **1931**, 674.
- of commerce. G. J. W. Ferry, **1931**, 675.
- Theragra Chalcogramma:** Gadoleic acid identified in liver oil of suseko-dara (—). Y. Toyama and T. Tsuchiya, **1934**, 352.
- Therapeutic substances;** Biological testing of —. **1926**, 196.
- Substances. Statutory Rules and Orders, 1927, No. 486. **1927**, 543.
- value of irradiated milk in the treatment of rickets. C. Watson, T. Y. Finlay and J. B. King, **1929**, 673.
- Thermal Conductivity;** Gas analysis by Measurement of —. (Review), H. A. Daynes, **1933**, 425.
- Thermochemical Commission.** **1928**, 42, 655.
- Thermochemie:** Premier Rapport de la Commission Permanente de —. **1935**, 130.

- Thermo-Couples**: Protective tubes for — for determining heat penetration in processed foods. K. L. Ford and A. G. Osborne, **1928**, 180.
- Thermodynamics and Chemistry**. (Review), F. H. Macdougall, **1927**, 560.
- Chemical Engineering and — applied to the Cement Rotary Kiln. G. Martin, **1933**, 126.
- Thermometers**: Calibration of katal —. **1926**, 191.
- Changes of zero in spirit —. **1929**, 291.
- Freezing-point —. **1934**, 586.
- Gallium-in-quartz — graduated to 1000° C. S. Boyer, **1926**, 110.
- Precision —. **1933**, 403.
- Thermometric titration**; Determination of the acetyl value by —. T. Somiya, **1930**, 461.
- Thermophilic Bacteria** in milk. M. O. Eckford, **1927**, 426; M. I. Christian, **1931**, 411.
- in refined cane sugars. W. L. Owen and R. L. Mobley, **1932**, 732.
- Thermo-Regulator** for heating and cooling baths. A. E. Bradfield, **1935**, 202.
- Mercury-in-glass —. C. C. Coffin, **1934**, 305.
- Thermostat**: Automatic low-temperature —. O. Mass and W. H. Barnes, **1927**, 252.
- Thiasine** in the blood; New sulphur-containing compound (—). S. R. Benedict, E. B. Newton and J. A. Behre, **1926**, 257.
- Thinners** of lacquers; Separation and analysis of the volatile solvents and —. R. M. Carter, **1927**, 102.
- Volatile Solvents and —. (Review), N. Heaton, **1926**, 379.
- Thioacetic Acid**: Spot test for —. **1935**, 56.
- Thioanisoles**: Method for direct methylthiolation and its application in the preparation of some substituted —. H. H. Hodgson and F. W. Handley, **1928**, 53.
- Thiocarbonate**: Identification of thallium as —. M. Picon, **1933**, 302.
- Thiocyanate**: Cobalt thiocyanate reaction for detecting cobalt and —. I. M. Kolthoff, **1930**, 529.
- Colorimetric determination of iron as —. L. de Brouckère and A. E. Gillet, **1933**, 640.
- Detection of molybdenum by —. F. C. Krauskopf and C. E. Swartz, **1927**, 105.
- Gravimetric determination of copper as —. I. M. Kolthoff and G. H. P. van der Meene, **1928**, 177.
- halides in presence of —; Identification of. G. B. and L. K. Heisig, **1935**, 639.
- method for precipitating copper; Application of the — in the confirmatory tests for cadmium and antimony. A. F. Daggett, **1929**, 679.
- method of determining soil acidity; Colloidal complications in the —. F. O. Anderegg and R. P. Lutz, **1926**, 48.
- method of estimating iron; Note on —. Influence of different classes of phosphates. G. W. Leeper, **1930**, 370. Erratum, **1931**, 183.
- titration; Iodimetric —. H. A. Pagel and H. J. Koch, **1931**, 555.
- Thiocyanates**: Chloramine in the determination of —. **1934**, 437.
- free from iron; Preparation of —. **1926**, 505.
- in the human organism. Post-mortem transformation of veronal, dial and gardenal into hydrocyanogen compounds. E. Kohn-Abrest, H. Villard and L. Capus, **1930**, 291.
- in well-water polluted with illuminating gas; Detection of —. **1927**, 654.
- Iodimetric determination of —. A. Schwicker, **1929**, 493.
- Sensitive microchemical tests for —. **1934**, 138.
- Thiocyanide** in the living organism. J. A. Klaassen, **1933**, 48.
- Thiocyanogen** absorption of oils and fats. H. P. Kaufmann, **1926**, 264.
- Thiocyanogen Value**: A new constant of oils and fats. H. P. Kaufmann, **1926**, 157.
- of fats. H. P. Kaufmann, **1928**, 613.
- of fats containing linolenic acid; Analysis by means of —. Analysis of linseed oil. H. P. Kaufmann and M. Keller, **1929**, 304.
- of Indian butter-fat (ghee). U. D. Budhalakoti and K. C. Mukherji, **1935**, 767.
- of Irish butter. P. S. Arup, **1932**, 610.
- of marine animal oils. Y. Toyama and T. Tsuchiya, **1930**, 292.
- of parsley seed oil. A. Steger and J. van Loon, **1929**, 177.
- of some Egyptian sesame and cotton-seed oils. H. Atkinson, **1934**, 399.
- Use of the —. IV, Analysis of oils containing linolenic acid. 1, Composition of chrysalis oil. W. Kimura, **1930**, 645.
- Thiodiazolines**: Synthesis of — from ketones. A. Lacourt, **1934**, 499.
- Thioglycolic Acid** as colour test for iron. E. Lyons, **1927**, 613.
- Thiohydrazides** as reagents for aldehydes; Use of —. H. Wuyts and H. Wachsmuth, **1935**, 839.
- Thioacetic Acid** as reagent for determining the inorganic iron content of biological materials. S. L. Tompsett, **1934**, 835.
- Thionine**: Differential staining of nucleoprotein and mucin by —. E. G. Kelley and E. G. Miller, **1935**, 627.
- Thionylaniline** as organic reagent and its use for identifying acids as anilides. P. Carré and D. Liebermann, **1932**, 537.
- as reagent in organic chemistry and its use for the identification of acids by the formation of anilides. P. Carré and D. Liebermann, **1933**, 491.
- Thiophen**: Toxicity of —. F. Flury and F. Zernik, **1932**, 262.
- Thio-semi-carbazide**: Determination of — by means of iodine. A. Gaffre, **1929**, 488.
- of strophanthus oil and of oils of the chaulmoogra group. E. I. Van Italie, **1929**, 606.
- Thiosulphate** as an acidimetric standard. J. Bicskei, **1932**, 589.
- Determination of — by means of ceric sulphate. N. H. Furman and J. H. Wallace, Junr., **1931**, 416.
- Precipitation of copper by —. J. Majdel, **1930**, 66.

Thiosulphate—*continued.*

Reaction of cupric salts with —. J. Hanus and V. Hovorka, **1929**, 254.

Thiosulphuric Acid: Determination of —. **1935**, 721.

Thomas recording gas calorimeter. Fuel Research Paper No. 20. **1928**, 385.

Thomas Phosphates: Phosphoric acid in —. **1926**, 70.

Thoria: Colour reaction of — with quinalizarin. A. S. Komarovskiy and I. M. Korenman, **1933**, 781.

Thorium: Atomic weight of —. **1928**, 160, 289; **1929**, 296; **1934**, 547.

Determination of — with *o*-hydroxyquinoline. F. Hecht and W. Ehrmann, **1935**, 272.

Phenylarsonic acid as a precipitant for zirconium and —. A. C. Rice, H. C. Fogg and C. James, **1926**, 318.

Quantitative determination of — by means of picronic acid. F. Hecht and W. Ehrmann, **1935**, 272.

Reaction of "aluminon" with hydroxides of beryllium, rare earths, zirconium and —. A. R. Middleton, **1926**, 537.

Separation of beryllium from —. **1928**, 403.

Separation of gallium from —. **1930**, 218.

Separation of thallium from —. **1930**, 410.

Separation of zirconium and hafnium from —. L. Moser and R. Lessing, **1928**, 458.

Thorn-apple seeds; Poisoning by —. A. Sartori, **1931**, 59.

Thorpe and Holmes Method for determining the total proportions of methyl, ethyl, isopropyl and propyl alcohols; Modification of —. S. S. Aiyar and P. S. Krishnan, **1935**, 237.

Thorpe's Dictionary of Applied Chemistry. (Review), Sir E. Thorpe. Vol. VI, **1926**, 374; Vol. VII, **1928**, 181; Supplement, Vol. I, J. F. Thorpe and M. A. Whiteley, **1934**, 781; Vol. II, **1935**, 645.

Thulium: Atomic weight of —. **1928**, 160, 289; **1929**, 296; **1934**, 547.

Thyme: Microscopical examination of —. **1934**, 744.

Volatile oil determined in —. **1934**, 616.

Thyme Oil as anti-ferment. **1928**, 612.

Microchemical distinction of. **1929**, 364.

Thymol: Bromine as a reagent in determining —. **1931**, 734.

Determination of —. C. V. Bordeianu, **1933**, 237.

New and specific tests for —. **1927**, 336.

Thyroid: Acetonitrile test for —. F. Wokes, **1935**, 485.

Estimation of dried —. **1932**, 697.

iodine in —; Determination of. I. Belkacci and R. Vigni, **1935**, 263.

tablets. **1935**, 753.

Thyroid Gland: Chemical assay of —. G. Middleton, **1932**, 603.

Geographical location and iodine content of the —. F. Fenger, R. H. Andrew and J. J. Vollersten, **1921**, 190.

inorganic iodine in desiccated —; Determination of. W. Lawson, **1933**, 486.

Thyroid Gland—*continued.*

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thyroxine in —; Determination of. N. F. Blau, **1933**, 706.

Water-soluble iodine content of desiccated —. C. R. Harington and S. S. Randall, **1933**, 166.

Thyroxine: Estimation of —. **1932**, 697. in thyroid gland; Determination of. N. F. Blau, **1933**, 706.

iodine in —; Determination of. G. Middleton, **1930**, 285.

Tiglic Acid: Halogen absorption of —. **1929**, 448.

Tikitiki extracts; Chemical and biological analyses of —. A. J. Hermano and F. Anido, **1933**, 356.

Timber: Australian —; Chemistry of. Part 3, W. E. Cohen, A. G. Charles and A. B. Jamieson, **1934**, 128. Part 4, Study of the lignin determination, II, W. E. Cohen, **1935**, 474.

Australian —; Manganese content of some. W. E. Cohen and A. B. Jamieson, **1933**, 635.

Australian — other than *Eucalypts*; Identification of the principal commercial. H. E. Dadswell and A. M. Eckersley, **1935**, 616.

Decomposition of — under industrial conditions. E. A. Rudge, **1933**, 772.

Tin alloys; Experiments on the electrolytic analysis of certain —. A. J. Lindsey and H. J. S. Sand, **1934**, 335.

Atomic weight of —. **1928**, 160; **1929**, 295; **1934**, 547.

coating; Action of abrasives and cleaners on —. **1935**, 252.

coatings on steel; Rapid test of —. S. G. Clarke, **1934**, 525.

copper in presence of —; Determination of minute amounts of. **1932**, 499.

corrosion and blackening in certain marine products. D. B. Dill and P. B. Clark, **1926**, 413.

Corrosion caused by —. **1935**, 323.

Corrosion of —. **1930**, 509.

Crystal precipitation of — with iso-propylantipyrene. **1934**, 776.

Determination of — by rapid electrolysis. J. Švéda and R. Uzel, **1929**, 366.

Differentiation of antimony and —. The phosphoric ion as a sensitive reagent. T. G. Y. Arnal, **1929**, 256.

Drop reaction for —. **1931**, 484.

in canned fish. H. A. Williams, **1935**, 683. in copper; Spectrographic method of determining —. B. Park, **1934**, 501.

in ferrotungsten and wolframite; Rapid determination of —. K. Kiefer, **1932**, 538.

in foil-wrapped cheeses; Occurrence of antimony and —. C. H. Manley, **1930**, 191.

in food and biological material; Bibliography on —. T. H. Pope, **1933**, 398.

in irons and steels; Determination of —. J. A. Scherrer, **1932**, 473.

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- in lead; Determination of traces of —. **1927**, 568.
- in organic compounds; Quantitative analysis of —. H. Gilman and W. B. King, **1929**, 365.
- in organic material; Determination of — with special reference to canned foods. G. Lunde and E. Mathiesen, **1934**, 636.
- in preserves and other foodstuffs; Volumetric method for determining —. B. Glassmann and S. Barsutzkaja, **1929**, 110.
- in processed cheese. **1931**, 251.
- in sild in olive oil. **1935**, 820.
- in steel determined by means of sodium hydrosulphite. B. S. Evans, **1932**, 362.
- in the animal organism. G. Bertrand and V. Ciurea, **1931**, 409.
- in tin plate; Rapid determination of —. K. Heuberger, **1929**, 769.
- iodimetric titration of —; A contribution to. F. L. Okell and J. Lumsden, **1935**, 803.
- lead alloyed with —; Analysis of. **1933**, 460.
- Lead reduction method for the volumetric determination of — and the interference with it by copper and antimony. S. G. Clarke, **1931**, 82.
- microchemistry of —; Collected references to. K. Heller, **1937**, 575.
- New method for detecting —. H. Meissner, **1930**, 465.
- Phenylarsonic acid as means of determining —. J. S. Knapper, K. A. Craig and G. C. Chandlee, **1934**, 60.
- Polishing and etching lead, —, and some of their alloys for microscopic examination. J. R. Vilella and D. Beregekoff, **1927**, 732.
- Potentiometric titration of — with potassium bromate. K. Sandved, **1927**, 2.
- Precipitation of — as stannous sulphide. B. Linke and H. Preisseecker, **1933**, 780.
- Rapid method of dissolving lead alloys preparatory to the determination of —. B. S. Evans, **1932**, 554.
- reduction of antimony and — prior to titration; New method of. B. S. Evans, **1931**, 171.
- Removal of — from tinned-lead tubes by tooth-pastes. V. Froboese, **1933**, 296.
- Research and Development Council; First General Report of International —. **1935**, 206, 250.
- Separation of — from copper, zinc, lead, etc., and from oxalic acid, by means of sodium hydrosulphite. B. S. Evans, **1932**, 362.
- Separation of — from tantalum and niobium. W. R. Schoeller and H. W. Webb, **1931**, 795.
- Separation of mercury from —. W. Hiltner and W. Gittel, **1935**, 428.
- Separation of small quantities of antimony from —. S. G. Clarke, **1928**, 373.
- Separation of thallium from —. **1928**, 459.
- Separation of tungsten from silica and —. J. Ciochina, **1928**, 240.

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- Substitution of centrifugation for filtration and calculation in the gravimetric determination of — and lead in their alloys. M. Foà, **1927**, 364.
- Use of solid carbon dioxide in determining —. H. I. White, **1934**, 716.
- volumetric determination of —. B. S. Evans, **1927**, 590; H. Wolf and R. Heilingötter, **1929**, 680.
- Volumetric determination of — with potassium iodate. J. B. Ramsay and J. G. Blann, **1934**, 434, 571.
- Tin-Foil** as a packing for rindless cheese. Elten, —, **1929**, 552.
- Tin-Lead Alloys**: Iron kettles tinned with —. J. T. Dunn and H. C. L. Bloxam, **1930**, 34.
- Tin-Plate** containers; Corrosion of — by food products. Food Investigation Board Report No. 40. **1931**, 315.
- Corrosion of —. **1933**, 613; Pellerin and Lasausse, **1932**, 47.
- Research on —. **1935**, 250.
- tin in —; Rapid determination of. K. Heuberger, **1929**, 769.
- Tin-Plating** solution; Analysis of sodium stannate —. A. W. Hothersall, S. G. Clarke and D. J. Macnaughtan, **1934**, 365.
- Tin-Solder** causing dark discoloration in cheese; Detection *in situ* of —. W. L. Davies, **1932**, 95.
- Tin-Zinc Alloys**: Determination of bismuth in — by means of sodium hydrosulphite. **1929**, 397.
- Tincture** of cardamoms; Colour of compound —. R. R. Bennett and G. Middleton, **1926**, 525.
- of digitalis; Standardisation of —. F. Wokes, **1929**, 426.
- of iodine and solution of iodine. (Legal Notes), **1929**, 470.
- of iodine; Sale of —. **1933**, 224.
- of quinine; Ammoniated —. (Legal Notes), **1929**, 418, 540.
- of stramonium; Assay of —. C. M. Caines, **1931**, 52.
- Tinct. Limonis Fort.**, B.P.C. Vitamin content of —. S. G. Willimott and F. Wokes, **1926**, 530.
- Tinctures**: Isopropyl alcohol in — detected by means of piperonal. G. Reif, **1931**, 115.
- Tinned** peas; Methylene blue in —. **1931**, 742; D. Henville, **1930**, 699.
- salmon; Crystals in —. **1931**, 808.
- strawberries; Vitamins in —. E. F. Kohmann, W. H. Eddy and N. Haliday, **1928**, 295.
- tomatoes; Metals in —. **1931**, 742.
- Tins**: "blown" —; Freshly-ground coffee and. T. B. Shaw and R. C. Frederick, **1926**, 308; J. W. Black, **1926**, 403.
- Marbling and corrosion of the interior of preserve —. W. D. Bogatsky, W. A. Biber and L. G. Kischnewskaja, **1930**, 143.
- Sardine-; Red colour of oil in preserved —. G. Hinard and M. Bourg, **1930**, 454.
- Tintometer** standardisation; Report on —. W. D. Hutchins, **1931**, 693.

- Tissue:** connective — in meat; Determination of amount of. H. H. Mitchell, R. L. Zimmerman and T. S. Hamilton, **1927**, 160.
 extracts; Microchemical test for choline and its esters in —. F. J. Booth, **1935**, 845.
 Muscle —. See **Muscle**.
 Plant —. See **Plant Tissue**.
 poison; Carbon monoxide as a —. J. B. S. Haldane, **1928**, 51.
- Tissues:** aluminium content of —; Influence of the administration of aluminium on, and on growth and reproduction of rats. V. C. Myers and J. W. Mull, **1928**, 547.
 animal; Determination of aluminium in —. V. C. Myers, J. W. Mull and D. B. Morrison, **1928**, 547.
 animal; Determination of amino acid nitrogen in —. J. M. Luck, **1928**, 345.
 animal; Determination of small amounts of lead in —. R. Nakaseko and I. Nakano, **1926**, 46.
 animal; Iron content of —. C. A. Elvehjem and W. H. Peterson, **1927**, 650.
 animal; Nitrates in vegetable and —. E. Kohn-Abrest and S. Kawakibi, **1926**, 585.
 biological; Mountants for —. W. Marshall, **1930**, 416.
 body-; Electrolytic method of determining small amounts of mercury in —. A. G. Yøung and F. H. L. Taylor, **1929**, 759.
 calcium in —, faeces and milk; Determination of. R. C. Corley and W. Denis, **1926**, 208.
 chloride in —; Micro-determination of. K. Linderstrøm-Lang, A. H. Palmer and H. Holter, **1935**, 421.
 ethyl alcohol normally present in human and animal —; Isolation, identification and quantitative determination of. A. O. Gettler, J. B. Niederer and A. A. Benedetti-Pichler, **1933**, 369.
 glycogen in —; Determination of. M. Sahyun, **1932**, 51.
 glycogen in small amounts of —; Determination of. A. E. Osterberg, **1930**, 145.
 gunpowder carbon in —; Identification of. **1935**, 761.
 in fishes; Creatine content of the muscles and some other —. A. Hunter, **1929**, 299.
 inositol in animal —; Determination of. L. Young, **1934**, 837.
 iron in —; Quantitative determination of. R. P. Kennedy, **1927**, 603.
 iron in blood, —, and urine; Determination of. F. S. Fowweather, **1926**, 309.
 Lead-content of human —. S. L. Tompsett and A. B. Anderson, **1935**, 772.
 lignified —; Action of chlorine on. F. M. Wood, **1934**, 569.
 magnesium in —; Use of a closed flask in the bromometric determination of, with 8-hydroxyquinoline. D. M. Greenberg, C. Anderson and E. V. Tufts, **1935**, 832.
 Neutral fat, of beef liver and other —. W. R. Bloor and R. I. Snider, **1930**, 518.
 silica in —; Determination of. E. J. King, **1929**, 52.
- Tissues—continued.**
 silica in —; Micro-determination of. G. Rodillon, **1934**, 438.
 silica in —; Micro-gravimetric determination of. J. C. Morgan and E. J. King, **1932**, 339.
 silicon in —; Isaac's method for colorimetric determination of. J. H. Foulger, **1927**, 240.
 unsaturated fatty acids in —; Distribution of. III, Vital organs of beef. W. R. Bloor, **1929**, 112.
 vegetable-; Nitrates in animal and —. E. Kohn-Abrest and S. Kawakibi, **1926**, 585.
 Vitamin C content of human —. M. Yavorsky, P. Almaden and C. G. King, **1934**, 765.
 vitamin C in plant and animal —; Distribution and determination of. O. A. Bessey and C. G. King, **1934**, 122.
- Titan Yellow** as reagent for magnesium in microchemistry of plants. H. Eilers, **1928**, 239.
Titania: Separation and determination of — as titanium potassium iodate. H. T. Beans and D. R. Mossman, **1932**, 476.
Titaniferous Substances. Titanium: With Special Reference to the Analysis of —. (Review), W. M. Thornton, *Junr.*, **1927**, 736.
Titanium: Atomic weight of —. **1928**, 159 (Erratum, **1928**, 241); **1929**, 295; **1931**, 538; **1934**, 547.
 Colorimetric determination of —. F. G. Germuth, **1928**, 509.
 Gallic acid as reagent for —. P. N. Das-Gupta, **1930**, 294.
 in alloy steels; Determination of —. J. Arend, **1932**, 672.
 in animals; Presence and distribution of —. G. Bertrand and Voronca-Spirt, **1930**, 585.
 in pomades; Determination of —. E. Kahane, **1932**, 728.
 in steels; Determination of —. T. R. Cunningham, **1933**, 715.
 in vitrain. **1934**, 35.
 iron in presence of —; Determination of. W. M. Thornton, **1935**, 429.
 microchemistry of —; Collected references to. K. Heller, **1933**, 305.
 New method for separating small quantities of tantalum and niobium from —. W. R. Schoeller and C. Jahn, **1929**, 320.
 Precipitation of — as phosphate. T. Da-Tchang and L. Houong, **1935**, 638.
 Precipitation of — by tannin. W. R. Schoeller and A. R. Powell, **1928**, 258.
 Quantitative separation of tantalum, niobium, zirconium and —, and a new analytical grouping. W. R. Schoeller and A. R. Powell, **1932**, 550.
 Separation and determination of — by hydroxyquinoline. R. Berg and M. Teitelbaum, **1930**, 596.
 Separation of — from tantalum and niobium. W. R. Schoeller and E. C. Deering, **1927**, 625; W. R. Schoeller and C. Jahn, **1932**, 72.
 separation of — from zirconium and hafnium; New method for. A. R. Powell and W. R. Schoeller, **1930**, 605.

Titanium—continued.

- Separation of beryllium from —. 1928, 403; 1929, 269.
- Separation of gallium from —. 1930, 218.
- Separation of iron, aluminium and —. E. S. von Bergkampff, 1931, 337.
- Separation of tantalum and niobium from zirconium and —. W. R. Schoeller, 1929, 453.
- Separation of thallium from —. 1930, 410.
- Separation of tungsten from —. A. R. Powell, W. R. Schoeller and C. Jahn, 1935, 506.
- Separation of uranium from tantalum, niobium and —. W. R. Schoeller and H. W. Webb, 1933, 143.
- Separation of zirconium and hafnium from —. L. Moser and R. Lessing, 1928, 458.
- solution; Potassium titanium oxalate for preparation of standard — in colorimetry. W. M. Thornton, Junr. and R. Roseman, 1930, 648.
- With Special Reference to the Analysis of Titaniferous Substances. (Review), W. M. Thornton, Junr., 1927, 736.
- Titanium Dioxide** in titanium white; Determination of —. G. Agamennone, 1930, 410.
- Soil rich in —. 1934, 826.
- Titanium Potassium Iodate**: Separation and determination of titania as —. H. T. Beans and D. R. Mossman, 1932, 476.
- Titanium Salts**: Effect of zirconium, manganese and — on nutrition. Richet, Gardner and Goodbody, 1926, 98.
- Titanium Sesquichloride** as means of determining selenium and tellurium. O. Tomiček, 1928, 59.
- Titanium Trichloride**: Use of buffers in the determination of Amaranth, Ponceau 3B, and Orange I by means of —. O. L. Evenson and D. T. McGutchen, 1928, 602.
- Titanium Trichloride II**: Use of buffers in determining colours, (dyes) by means of —. O. L. Evenson and R. H. Nagel, 1931, 413.
- Titanium White**: titanium dioxide in —; Determination of. G. Agamennone, 1930, 410.
- Titanous Chloride**: Determination of nitro-compounds by reduction with —. I. M. Kolthoff and C. Robinson, 1926, 263.
- solution; Volumetric analysis of malachite green with titanous sulphide and —. H. Wilkinson and A. G. Tyler, 1927, 362.
- Titanous Sulphate** solution; Air oxidation of —. Vanadous sulphate, a new and powerful reducing agent. A. S. Russell, 1926, 267.
- solutions; Stability of — in air. H. Wilkinson and A. G. Tyler, 1927, 363.
- Titanous Sulphide** solution; Volumetric analysis of malachite green with titanous chloride and —. H. Wilkinson and A. G. Tyler, 1927, 362.
- Titration**: Acidimetric — and composition of commercial lactic acid. R. Eder and F. Kutter, 1926, 536.

• Titration—continued.

- alkalimetric and iodimetric —; Potassium bi-iodate as a standard substance in. I. M. Kolthoff and L. H. van Berk, 1927, 48.
- argentometric halogen —; Accuracy of. I. M. Kolthoff and L. H. van Berk, 1927, 304.
- Choice of end-points in alkaloidal —. E. B. R. Prideaux and F. T. Winfield, 1930, 561.
- Determination of the acetyl value by thermometric —. T. Somiya, 1930, 461.
- differential potentiometric —; Method for. D. A. MacInnes and P. T. Jones, 1927, 50.
- Electrometric —. Chloramine-T as titrating reagent. A. McMillan and W. Easton, 1928, 111.
- electrometric; New type of end-point in — and its applicability to iodimetry. C. W. Foulk and A. T. Bawden, 1926, 539.
- Formaldehyde — of certain amino-acids. S. L. Jodidi, 1926, 263.
- Indicators for alkaloidal —. H. Wales, 1926, 316.
- iodimetric —; Preparation of starch solution for use in. C. L. Alsberg, E. P. Griffing and J. Field, 1926, 371.
- Micro —. See **Micro-Titration**.
- Micro-potentiometric —. K. Schwarz, 1934, 849.
- of Kjeldahl distillates; Use of the potassium iodide and iodate method for —. H. F. Wilson and F. Mattingley, 1926, 569.
- Potentiometric —. (Review), I. M. Kolthoff and N. H. Furman, 1927, 203; 2nd Ed., 1932, 350.
- Potentiometric — of some oxidising acids. M. L. Malaprade, 1926, 271.
- Potentiometric — of tin with potassium bromate. K. Sandved, 1927, 2.
- Romijn's formaldehyde —. 1930, 208.
- Volumetric — and chemical reactions in Wood's light. R. Mellet and M. A. Bischoff, 1926, 480.
- Tobacco**: Ammonia and amide nitrogen in — determined by use of permutit. H. B. Vickery and G. W. Pucher, 1929, 550.
- Ammonia in —. 1927, 22.
- Arsenic in —. 1935, 41.
- Carbohydrates of — and their significance. C. Pyriki, 1935, 185.
- citric acid and malic acid in —; Determination of. H. Rundshagen, 1926, 645.
- Composition and quality of various kinds of —. 1927, 24.
- "Denicotinised" —. 1929, 164.
- fermentation of dried —; Researches on. I, Methods for separating nicotine and ammonia. A. Fodor, and A. Reifenberg, 1936, 98.
- "free nicotine" in —; Determination of. H. B. Vickery and G. W. Pucher, 1929, 754.
- from Palestine, Nigeria and Mauritius. 1926, 482.
- glycerin in —; Detection and determination of. A. C. Chapman, 1926, 382.
- habit; The —. W. E. Dixon, 1927, 662.

Tobacco—continued.

- Importance of acidity of — for its hygienic evaluation. A. Fattelowitz, **1931**, 261.
- medical aspect of —; An address on the. H. Rolleston, **1926**, 319.
- nicotine in — and — smoke; Determination of, B. Pfyl and O. Schmitt, **1927**, 728.
- nicotine in — and — smoke; Polarimetric determination of. E. Toole, **1933**, 625.
- nicotine in —. Determination of. H. Rundshagen, **1926**, 152; R. R. T. Young, **1927**, 15; W. Mohr, **1933**, 766.
- nicotine in —; Fractional extraction of. **1927**, 23.
- nicotine in —; Micro-titrimetric determination of. J. Bodnár and v. L. Nagy, **1934**, 574.
- nicotine in oriental —; Determination of. J. Burmann, **1931**, 53.
- nicotine in raw —; Distribution of. T. B. Andreadis and E. J. Toole, **1935**, 110.
- nicotine in unfermented —; Rapid method for determining. O. Dafert and M. T. Bollbecher, **1932**, 389.
- nitrate nitrogen in —; Determination of. H. B. Vickery and G. W. Pucher, **1929**, 608.
- plants; Effect of boron deficiency on the growth of — in aerated and unaerated solutions. J. E. McMurtrey, **1929**, 427.
- preparations; Commercial nicotine-free, nicotine-poor, and nicotine-harmless —. K. Baumann and J. Kuhlmann, **1930**, 142.
- Raw —. Nicotine content and its retention at various temperatures. C. Pyriki and H. Dittmar, **1931**, 407.
- seed; Analyses of —. **1931**, 537.
- smoke; Amounts of nicotine in —. G. Pyriki, **1931**, 753.
- smoke; Appearance of nicotine in —. C. Pyriki, **1932**, 727.
- smoke; Application of adsorbing agents to the removal of poisonous matters from —. A. Schaarschmidt, **1933**, 44.
- smoke; Denicotinisation of — during smoking. R. Kissling, **1932**, 181.
- smoke; Hydrocyanic acid in —. IV. E. Waser and M. Stähli, **1934**, 356.
- smoke; Investigations on —. E. Waser and M. Stähli, **1933**, 45, 165.
- smoke; Nicotine content of —. C. O. Jensen and D. E. Haley, **1935**, 829.
- smoke; Occurrence of hydrogen sulphide in —. A. Wenusch, **1935**, 830.
- smoke; Occurrence of resins in —. A. Wenusch, **1935**, 260.
- smoke; Removal of nicotine from —. J. Traube, **1932**, 390.
- smouldering capacity of —; Determination of. V. L. Nagy, **1934**, 119.
- The smoking habit and mental efficiency. J. R. Earp, **1926**, 319.
- Tobacco Seed Oil:** Wisconsin-grown —. W. L. Roberts and H. A. Schuette, **1934**, 187.
- Tobago:** See Trinidad.
- Todarus Sagittatus Lk.** Cuttlefish oil (—) E. André and H. Canal, **1926**, 473.

- Toddy:** Alcohol content of —. **1926**, 145.
- Composition of —. **1935**, 473.
- Standards for —. **1931**, 812.
- Toffee:** Labelling of —. **1928**, 647.
- Rum and butter —. (Legal Notes), **1928**, 93.
- Sulphur dioxide as bleaching agent in —. **1926**, 571.
- Tolamine:** **1931**, 51.
- Tolidine** as reagent in analysis. R. G. Harry and E. A. Rudge, **1932**, 334.
- o-Tolidine Test** for available chlorine; Manganese interference in the —. E. S. Hopkins, **1927**, 496.
- for sewage chlorination; Use and value of —. C. Lea, **1933**, 779.
- Tollens' Reagent** for acetaldehyde in ether, **1931**, 241.
- Tolu:** Syrup of —. **1928**, 153.
- o-Toluidine:** Determination of —. S. Ueno and H. Sekiguchi, **1934**, 126.
- Toluidines:** Analysis of mixtures of the isomeric —. H. H. Ekers and N. Strafford, **1927**, 302.
- Tomato catsup.** **1929**, 163.
- Conductivity and acidity of —. **1933**, 551.
- conserve; Action of heat on —. O. Carrasco and E. Sartori, **1932**, 253.
- conserves. Decrees of Ministry of Local Government of Argentine. **1935**, 324.
- juice; Chemical study of —. C. F. Poe, A. P. Wyss and T. G. McEver, **1934**, 115.
- juice; Effect of fermentation with specific micro-organisms on the vitamin C content of orange and —. S. Lepkovsky and E. B. Hart, **1926**, 155.
- juice; Comparative composition and colour of commercial —. J. S. Mitchell, **1935**, 415.
- juice; Vitamin C content of canned —. R. G. Daggs and A. G. Eaton, **1934**, 360.
- Manganese in —. **1929**, 348.
- products; Examination of —. **1928**, 598.
- plants; Analysis of —. O. Owen, **1929**, 558.
- purée; Acid content of —. G. Mészáros, **1934**, 349.
- purée; Copper in —. **1935**, 753.
- sauce; Non-sugar organic tomato solids in —; Determination of. **1928**, 538.
- Tomatoes:** Adulteration and misbranding of canned —. United States v. A. J. Lewis. (Legal Notes), **1926**, 34.
- Agricultural Produce (Grading and Marking) (—) Regulations, 1929. **1930**, 45.
- Boron compounds in —. **1929**, 17.
- Colouring matter in red and purple —. M. B. Matlack and C. E. Sando, **1934**, 285.
- Metal in tinned —. **1931**, 742.
- Narcotine isolated from —. **1932**, 188.
- Organic acids of —. A. Bornträger, **1923**, 151; **1928**, 388.
- Standard for canned —. U.S.A. Dept. of Agriculture regulations. **1932**, 103.
- Storage of —. **1933**, 612.
- Vitamin A, B and C content of artificially versus naturally ripened —. M. C. House, P. M. Nelson and E. S. Haber, **1929**, 301.
- Vitamin C in fresh and canned —. B. Clow and A. L. Marttatt, **1930**, 459.

- Tomatoes**—*continued*.
water in — and preserved —; Composition and determination of. A. Leonhard, 1931, 115.
- Tonka-Bean Oil**: C. D. V. Georgi and G. L. Teik, 1931, 670.
- Tooth Enamel**: Structure of —. 1935, 470.
- Tooth-Pastes**: Removal of lead and tin from tinned-lead tubes by —. V. Froboese, 1933, 296.
- Total Solids**: Determination of —. A new micro method. A. C. Rottinge, 1926, 363.
in milk; Relationship between yield, butter-fat, solids-not-fat and —. 1926, 608.
in potatoes; Correlation between the specific gravity, starch content and —. 1926, 520.
of bread; Determination of —. R. Hertwig and L. H. Bailey, 1926, 38.
of condensed milk; Determination of —. 1927, 403.
- Toth** method of determining nicotine in tobacco. 1927, 18.
- Tourne** bacterium in a highly alcoholic medium; Intense development of —. L. B. D'Estivaux, 1935, 630.
- Toxic** action of sassafras oil and safrol on animals. G. A. Mallinson, 1926, 46.
effects of methyl chloride gas. B. Buckley Sharp, 1930, 291.
substances in human faeces; Unrecognised —. D. C. Watson, 1923, 114.
- Toxicity**: Cellular — of gaseous and volatile poisons. (Mme.) S. Lallemand, 1929, 359.
of benzol and its higher homologues; Relative —. J. J. Batchelor, 1927, 426.
of *Bikukulla formosa* (Western bleeding heart). O. F. Black, W. W. Eggleston and J. W. Kelly, 1930, 525.
of carbon tetrachloride. M. Khalil, 1926, 260.
of cruciferous seeds and oil cakes; Acridness and —. G. Jørgensen, 1927, 44.
of fluorine compounds; Comparative —. M. C. Smith and R. M. Leverton, 1934, 710.
of irradiated ergosterol. 1932, 176.
of isomeric menthols; Antiseptic value and —. 1933, 236.
of lupin alkaloids; Relative —. J. F. Couch, 1926, 361.
of methyl alcohol following skin absorption and inhalation. C. P. McCord, 1931, 759.
of mixtures of poisons. B. A. Southgate, 1933, 173.
of pyrethrins I and II; Relative —. C. B. Gnadinger and C. S. Corl, 1930, 644.
of pyrethrum dusts; Loss of —. F. Tatterfield, 1932, 401.
of pyrethrum vapours to honey bees. J. M. Ginsburg, 1930, 596.
of rotenone hydrochloride, acetylrotenone and rotenone; Study of —, using the gold-fish as test animal. W. A. Gersdroff, 1933, 297.
of some cottonseed products; Relation of *d*-gossypol to the —. W. D. Gallup, 1928, 233.
of tar acids in effluents. 1933, 283.
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- Toxicity**—*continued*.
of thiophen. F. Flury and F. Zernik, 1932, 262.
of vitamin D. J. B. Duguid, 1931, 266.
of zinc. V. G. Heller and A. D. Burke, 1927, 554.
Relationship between chemical constitution and —. E. Walker, 1928, 298.
tests for novarsenobenzene (neosalvarsan). Medical Research Council Special Report No. 128. E. H. Durham, J. H. Gaddum and J. E. Marchal, 1929, 667.
tests with rhenium. L. C. Hurd, J. K. Colehour and P. P. Cohen, 1934, 641.
- Toxicological** detection and isolation of barbital. J. J. L. Zwikker, 1931, 758.
examinations in Siam. 1932, 313.
investigation on mandibulate insects; Quantitative —. F. L. Campbell, 1926, 313.
research for alkaloids; Use of lead chloride for clearing organic liquids in —. J. Magnin, 1927, 356.
study of bismuth. R. Fabre and M. Picon, 1929, 55.
- Toxicology**: Chromium —. Absorption of chromium by the rat. L. W. Conn, H. L. Webster and A. H. Johnson, 1932, 470.
Clinical —. (Review), E. Leschke, 1934, 722.
Determination of benzene in —. I. Preliminary study of the colorimetric determination of *m*-dinitrobenzene. M. Péronnet, 1934, 711.
of methyl alcohol. O. Windhausen, 1926, 590.
of tetrachloroethylene. P. D. Lamson, B. H. Robbins and C. B. Ward, 1929, 358.
of thallium. G. R. Lynch and J. M. S. Scovell, 1931, 268.
Recent advances in —. W. Willcox, 1928, 114.
Use of trichloroacetic acid in —. G. Florence, 1927, 655.
- Toxin**: Beriberi and rice "—" 1929, 291.
- Toxins**: Effect of ascorbic acid (vitamin C) on —. E. Harde, 1934, 765.
- Tracing Cloth**: Transmission of ultra-violet light through —. C. H. Young, 1929, 191.
- Trade Names**; Chemical Synonyms and —. (Review), W. Gardner, 1926, 654.
- Trade Mark** Committee; Report of —. 1934, 410.
Law; Memorandum on British —. 1933, 473.
Scope of rights in a —. (Legal Notes), Irving's Yeast-Vite, Ltd. v. Horsenail, 1934, 173.
- Tragacanthin**: Studies on — (the soluble constituent of gum tragacanth). A. G. Norman, 1931, 469.
- Transparency** of natural waters to ultra-violet rays. J. Duclaux and P. Jeantet, 1926, 112.
- Travers's Method** for determining fluorine; Study of — with reference to insecticides. C. M. Smith, E. H. Hamilton and J. J. C. Graham, 1931, 551.
- Trehalose**: Fermentation of — by members of the colon-aerogenes groups of bacteria. C. F. Poe and J. T. Field, 1933, 106.

- "Trembles"** (milk sickness); **Tremetol**, the compound that produces —. J. F. Couch, **1930**, 150.
- Tremetol**; the compound that produces "Trembles" (milk sickness). J. F. Couch, **1930**, 150.
- Trials**: Some Famous Medical —. (Review), L. A. Parry, **1927**, 665.
- Triaryl Carbinols**: Colorimetric determination of —. S. T. Bowden, **1934**, 619.
- Triazelain**: Study of —. G. Schuster, **1931**, 188.
- Tribolium Confusum Duval**: Vitamin requirements of the flour beetle (—). M. D. Sweetman and J. S. Palmer, **1928**, 348.
- Tricalcium Phosphate** as a caking inhibitor in salt and sugar. H. V. Moss, T. W. Schilb and W. C. Warning, **1933**, 232.
- Trichloroacetates** of the alkaloids. Use of trichloroacetic acid in toxicology. G. Florence, **1927**, 655.
- Trichloroethylene** as means of determining water and crude fat in substances rich in fat. A. Heiduschka and G. Neumann, **1930**, 530.
- Behaviour of beeswax towards — at ordinary temperature. G. Buchner, **1928**, 397.
- Effects of —. (Legal Notes), **1935**, 97.
- in technical solvents; Colorimetric detection of —. H. H. Weber, **1934**, 57.
- Toxicity of —. **1934**, 626.
- Trichloroacetic Acid** filtrates as means of determining calcium, magnesium and acid soluble phosphorus in milk. G. P. Sanders, **1931**, 401.
- Use of — in toxicology. G. Florence, **1927**, 655.
- Trichlorotribenzylidene-sorbitol**: Detection of — by means of acetone. G. Reif, **1935**, 181.
- Trichromatic** colorimeter suitable for standardisation work. J. Guild, **1927**, 50.
- Trielaidin**: Conversion of triolein into — in the presence of oxides of nitrogen. **1933**, 416.
- in mixtures containing known proportions of triolein and —; Determination of. **1934**, 324.
- Triethanolamine** as a means for the quantitative separation of nickel and cobalt. E. Raymond, **1935**, 574.
- Detection and determination of —. H. R. Fleck, **1935**, 77.
- New reaction of — with cobalt salts. F. Garelli and T. Tettamanzi, **1934**, 366.
- Trifructosan**: A new carbohydrate of rye flour. **1929**, 43.
- content of rye as means of detecting rye and wheat flour in mixtures. H. Werner and H. Volger, **1935**, 702.
- Triglycerides**: Physical properties of pure —. R. B. Joglekar and H. E. Watson, **1929**, 117.
- Trigonelline** content of coffee. F. E. Nottbohm and F. Mayer, **1931**, 543.
- Extraction of — from raw coffee. F. E. Nottbohm and F. Mayer, **1932**, 254.
- in raw and roasted coffee; Determination of —. F. E. Nottbohm and F. Mayer, **1931**, 405.
- New lead iodide double salt of —. K. Lendrich and F. Mayer, **1931**, 326.
- Trigonometric** tables; Easily Interpolated — with Non-Interpolating Logs, Cologs and Antilogs. (Review), F. W. Johnson, **1934**, 443.
- Trimethylamine** in foodstuffs; Determination of —. F. Okoloff, **1932**, 321.
- Trimethylarsine**: Formation of —. F. Challenger, C. Higginbottom and L. Ellis, **1933**, 235.
- Trinidad and Tobago**: Report of the Government Analyst for the year 1925. H. Shrewsbury, **1926**, 462; for 1929, **1931**, 182; for 1932, **1933**, 696; for 1933, **1934**, 755; for 1934, **1935**, 825.
- 2, 4, 6-Trinitrophenyl-acetyl-hydrazine**: Indicator properties of —. A. Bloom and A. Ostol, **1934**, 126.
- Trinkwasser** Biologie; Arbeitsmethoden der —. H. Beger, **1931**, 698.
- Triolein**: Conversion — into trielaidin in presence of oxides of nitrogen. **1933**, 416.
- Trional** tablets; Assay of —. L. E. Warren, **1928**, 545.
- Tri-ortho-cresyl Phosphate** poisoning ("ginger paralysis"). Kidd and Langworthy, **1933**, 710.
- Tripe**: Bleached —. **1934**, 824.
- Triphenyl Tin Fluoride**: Determination of fluorine by precipitation as —. N. Allen and N. H. Furman, **1933**, 113.
- Triphenylmagnesium Bromide**: Reduction of aromatic ketones and benzils by —. W. E. Bachmann, **1931**, 683.
- Trisodium Phosphate**: Germicidal efficiency of sodium hydroxide, sodium carbonate and — at the same hydrogen ion concentration. M. Levine, E. E. Petersen and J. G. Buchanan, **1928**, 170.
- Trochisci Santonini**: Santonin determined in —. P. J. Claus, **1931**, 467.
- Tropaeolin OO**: Fading of — in the titration of organic acids in urine. K. L. McCluskey, **1931**, 195.
- Tropine Group** of alkaloids; Changes undergone by — in putrefying organic media. M. Magnette, **1926**, 419.
- Tropine Silicotungstat**: Action of picric acid on —. R. Hazard, **1928**, 446.
- Truffle** preserve; Counterfeited —. C. Griebel, **1935**, 479.
- Trypsin**: Action of — on different types of wool. C. Fromageot and A. Porcherel, **1932**, 52.
- Tryptophane**: Colour reaction of —. **1932**, 588.
- content of various crude protein concentrates; Colorimetric determination of —. W. D. McFarlane and H. L. Fulmer, **1931**, 264.
- Determination of — by means of *p*-dimethylaminobenzaldehyde. W. J. Boyd, **1929**, 354.
- in blood; Colorimetric method for determining the free —. C. A. Cary, **1928**, 501.
- in proteins; Colorimetric determination of tyrosine, cystine and —. II, J. M. Looney, **1926**, 588.
- in proteins; Further application of the vanillin and hydrochloric acid reaction to the determination of —. I. K. Ragins, **1929**, 115.

Tryptophane—*continued.*

- in the haemolymph of the silkworm; Colorimetric determination of —. L. Mamoli, **1934**, 50.
- Sublimation temperature of —. **1933**, 117.
- Tuba Root** poisoning. **1932**, 654.
- Tubain** as constituent of derris root. **1928**, 597.
- Tubatoxin** as constituent of derris root. **1928**, 597.
- Tube Root**: Chemical evaluation of —. P. A. Rowaan, **1935**, 483.
- Tubercle Bacilli**: A simple calculation of the value of the microscopical examination of milk for —. D. R. Wood, **1931**, 179.
- Examination of milk for —. D. R. Wood, **1930**, 544.
- in milk; Detection of —. **1927**, 117.
- Milk samples examined for —. **1929**, 231.
- Tuberculin**-tested milk. (Parliamentary Notes). **1926**, 244.
- Tuberculous** cows. *See Cows.*
- Tubers**: Analysis of dahlia — and preparation of laevulose. R. F. Jackson, C. G. Silsbee and M. J. Proffitt, **1926**, 304.
- Tubes**: Meniscus corrections involved in the calibration of graduated —. A. More, **1929**, 630.
- Tubiporus Rufus Schff.** Truffle sausage containing —. M. Brüllau, **1933**, 615.
- Tung Oil**: A test for Chinese wood oil (—). E. R. Bolton and K. A. Williams, **1926**, 335.
- Chemical studies and specification. L. A. Jordan, **1934**, 298.
- Composition and polymerisation of —. E. R. Bolton and K. A. Williams, **1930**, 360, 366.
- α -Elaeostearic acid of —. J. Böeseken, **1928**, 54; **1929**, 305.
- α -Elaeostearic triglyceride in —. **1928**, 75-
from *Aleurites montana* and specification tests. L. A. Jordan, **1934**, 194.
- Halogen absorption of —. **1929**, 445.
- Iodine value of —. **1933**, 526; K. Ho, S. Wan and S. H. Wen, **1935**, 569.
- Refractive index of —. J. Rinse, **1932**, 537.
- Thiocyanogen absorption method of determining the composition of Chinese wood oil (—). H. P. Kaufmann, **1926**, 473.
- Tung-Seed** meal; Feeding-value of —. W. Godden, **1934**, 55.
- Tungsten** arc lamps; Use of — for photomicrography. E. E. Jelley, **1931**, 420.
- Atomic weight of —. **1928**, 160; **1929**, 296; **1934**, 547.
- Determination of — with α -hydroxyquinoline. S. Halberstadt, **1933**, 302.
- Determination of — with phenylhydrazine. G. Dortrepe, **1930**, 347.
- Dotrepe's method for determining —; Study of. M. L. Holt, **1935**, 54.
- in high-speed tool steel; Rapid determination of —. W. Brüggemann, **1930**, 155.
- in low-grade ores; Rapid determination of —. S. Fernančić, **1934**, 646.
- in ores; Rapid test for —. A. Petrovsky, **1929**, 490.
- in steel; Determination of — as hydrated tungstic acid. H. Wdowiszewski, **1932**, 196.

Tungsten—*continued.*

- Interference of — in earth-acid determinations. W. R. Schoeller and C. Jahn, **1934**, 465.
- New microchemical test for —. A. Martini, **1932**, 741.
- Precipitation of — as mercurous tungstate, V. Spitzin, **1929**, 123.
- Separation of — from silica and tin. J. Ciochina, **1928**, 240.
- Separation of — from tantalum and niobium. W. R. Schoeller and C. Jahn, **1927**, 504.
- Separation of — from titanium, niobium, tantalum and zirconium. A. R. Powell, W. R. Schoeller and C. Jahn, **1935**, 506.
- Separation of — from vanadium. A. Jilek and J. Lukas, **1929**, 490.
- Separation of beryllium from —. **1928**, 403.
- Separation of gallium from —. **1930**, 218.
- Separation of molybdenum from —. W. Werz, **1935**, 340.
- Separation of thallium from —. **1930**, 410.
- Separation of vanadium from —. S. G. Clarke, **1927**, 466, 527.
- Treatise on its Metallurgy, Properties and Applications. (Review), C. J. Smithells, **1927**, 55.
- Vanadium in presence of chromium, iron and — determined by titration with ceric sulphate solution. H. H. Willard and P. Young, **1928**, 674.
- Tungsten Hexachloride**: Action of — on phenyl magnesium iodide. W. Brydowna, **1927**, 105.
- Tungsten Steels**: vanadium in —; Determination of. **1928**, 426.
- Tungstic Acid**: Precipitation of — by tannin. W. R. Schoeller and C. Jahn, **1927**, 504.
- Tungsten in steel determined as hydrated —. H. Wdowiszewski, **1932**, 196.
- Tungstic Oxide**: Recovery of vanadium from —. **1928**, 427.
- Tunisian** olive oil; Chemical composition of —. G. S. Jamieson, R. M. Hann, and W. F. Baughman, **1927**, 290.
- Tunnels**: Ventilation of vehicular —, with particular reference to those at Blackwall and Rotherhithe. C. J. Regan, **1932**, 341.
- Tupfelreaktionen**: Qualitative Analyse mit Hilfe von —. 2nd Ed. F. Feigl (Review), **1935**, 205.
- Turbidimeter** for measurement of low turbidities. J. R. Bayliss, **1926**, 270.
- Turbidity**: Microscopical examination of — as means of detecting fruit wine in wine. A. Widner and O. E. Kalberer, **1927**, 481.
- Temperature method of analysing mixtures of cacao and illipé butters. **1927**, 326.
- Turbidimeter** for measurement of low —. J. R. Bayliss, **1926**, 370.
- Turbine** oils; Evaluation of —. T. H. Rogers and C. E. Miller, **1927**, 301.
- Turbot**: Identification of —. **1935**, 70.
- Turmeric** on furs; Identification of —. **1935**, 797.
- White pepper coloured with —. **1930**, 681.
- Turpentine**: Borneol in spruce —. A. S. Wheeler and C. R. Harris, **1926**, 49.

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- “Household” —, 1932, 653.
 in air; Colorimetric determination of —. P. Andrejew and A. Gavrilow, 1930, 63.
 liniment; Analysis of —. T. McLachlan, 1935, 685.
 Liniment of —. (Legal Notes), 1928, 220, 282; 1930, 752; 1931, 105.
 Paraffin oil in —. 1932, 246.
 Sale of “Household turps” as —. (Legal Notes), 1931, 530.
 Specific Gravity and Baumé Gravity Tables for —. W. P. Smith and F. P. Veitch, 1930, 604.
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Turtle Oil: Physical and chemical characteristics of —. W. Lee, 1935, 650.
Turtles: Phosphorus distribution, sugar and haemoglobin in the blood of —. C. M. McCay, 1931, 263.
Tuscany: Soffioni and Lagoons of — and the Boric Acid Industry. (Review), R. Nasini, 1931, 215.
Tutankhamen’s Tomb: Cosmetic from —. 1926, 448.
Tutocaine: New colour-reaction for —. 1927, 41.
Twitchell Method: Detection of hardened fat in beef fat from the iodine value of the solid fatty acids separated by —. S. C. L. Geritzen and M. Kauffman, 1928, 44.
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Typhoid bacillus; Action of — on milk. C. Gorini, 1926, 641.
Typhoid-Paratyphoid bacilli in sewage. R. S. Begbie and H. J. Gibson, 1930, 593.
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 Separation of — from large amounts of cystine. F. R. Greenbaum, 1935, 486.
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- Ucuhuba Fat**: A. Steger and J. van Loon, 1935, 329.
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- **Ultra-violet** absorption of certain vegetable oils as an indication of their industrial treatment. J. Guillot, 1935, 432.
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 irradiation; Activation of sterol fractions by —. A. F. Hess and R. J. Anderson, 1927, 653.
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- Ultra-violetten Licht**: Lumineszenz Analyse in Filtrierten —. 3rd Ed. P. W. Danckwört (Review), **1935**, 68.
- Umbelliferae**: Seed fats of some cultivated species of —. B. C. Christian and T. P. Hilditch, **1929**, 547.
- Undulant Fever**: **1933**, 758.
- United Provinces of Agra and Oudh**: Report of the Chemical Examiner (D. N. Chatterji) for the year 1925, **1926**, 349; for 1926, **1927**, 476; for 1928, **1929**, 474; for 1929, **1930**, 694.
- United States of America** Bureau of Standards, Bulletin No. 25—Standard Samples. **1927**, 661.
- Bureau of Standards; Organisation and work of the —. G. K. Burgess, **1926**, 319.

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- Departments of Agriculture. Food Inspection Decisions. No. 198: Wine vinegar, grape vinegar and malt vinegar. **1926**, 579;
- No. 199: Gluten flour, self-raising, "diabetic" food, and canned pea grades, **1926**, 580.
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- Department of Agriculture. Certification of coal-tar food colours. The permitted dyes, **1929**, 345.
- Department of Agriculture: Food and Drug Administration. Revised and Amended Definitions and Standards for Food Products. Fruit Juice and Wheat Flour. **1930**, 637.
- Department of Agriculture. New and Revised Definitions and Standards for Food Products. **1932**, 656.
- Department of Agriculture. Revised and Amended Definitions and Standards for Food Products Corn Sugar. **1931**, 183.
- Department of Agriculture: Standard for canned tomatoes. **1932**, 104.
- Department of Agriculture. Standard for mayonnaise salad dressing. **1929**, 107.
- Department of Agriculture. Standards under the Tea Act. **1935**, 413.
- Department of Commerce. Report of the Bureau of Standards for the year ending June 30, 1929. **1930**, 131.
- Department of Commerce. Standards for iron gallate inks, liquid and powder. **1935**, 698.
- Grading of milk in —. **1933**, 348.
- Pharmacopoeia revision. **1935**, 620.
- Pharmacopoeia test for soluble alkalis and alkalinity in milk of magnesia and magnesium oxide. H. Wales, **1934**, 763.
- Pharmacopoeia vitamin standards. **1934**, 284.
- Pharmacopoeial standards for cod-liver oil. **1934**, 545.
- Public Health Bulletin, No. 144. Comparative tests of instruments for determining atmospheric dusts. **1926**, 36.
- Unsaponifiable Matter**: Determination of —, with special reference to fish and marine animal oils. E. R. Bolton and K. A. Williams, **1932**, 25.
- from the stomach oil of *Scymnorhinus tichia*. E. D. Kamm, **1928**, 294.
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- Unsaturated compounds**; Determination of hydrogen value of —. H. I. Waterman, J. N. J. Perquin and H. A. van Western, **1929**, 119.
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- Uraninite**: Determination of Canadian —. **1934**, 301.
- Uranites**: Quantitative micro-analysis of —. F. Hecht and W. Reich-Rohrwig, **1934**, 368.
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- Colorimetric and gravimetric determination of —. P. M. Das-Gupta, **1930**, 154.
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- Separation from tantalum, niobium and titanium. W. R. Schoeller and H. W. Webb, **1933**, 143.
- Separation of gallium from —. **1929**, 367.
- Volumetric determination of —. Application to the indirect titration of minute quantities of sodium. I. M. Kolthoff and J. J. Lingane, **1933**, 419.
- Uranium Nitrate**: Behaviour of fish oils with — and pyrogallol. W. H. Dickhart, **1927**, 725.
- Uranium Ores**: Volumetric determination of uranium, vanadium, copper and iron in —. A. S. Russell, **1926**, 268.
- Uranium Salts**: vanadium in —; Determination of. N. I. Tschervjakow and E. A. Ostroumow, **1935**, 780.
- Uranous Sulphate** in volumetric analysis; Use of —. G. Vortmann and F. Binder, **1926**, 158.
- Uranyl Acetate** for the micro-detection of sodium. **1933**, 784.
- method of determining sodium in organic compounds. D. L. Tabern and E. F. Shelberg, **1931**, 685.

- Uranyl Ion**: Inhibiting action of certain ions on the fluorescence of —, and its applications to inorganic chemical analysis. Volmar and Mathis, **1933**, 570.
- Uranyl Zinc Acetate** as reagent for the quantitative determination of sodium. I. M. Kolthoff, **1929**, 435.
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- Uranyl Zinc Sodium Acetate**: Solubility of — in alcohol of different strengths. G. W. B. van der Lingen, **1932**, 376. *See also* List of Errata.
- Urea**: allantoin in presence of —; Biochemical determination of. R. Fosse, A. Brunel and P. de Graeve, **1929**, 479.
as means of determining mono-calcium phosphate. C. W. Whittaker, F. O. Lundstrom and W. L. Hill, **1935**, 334.
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- Urease**: Determination of urea by gasometric measurement of the carbon dioxide formed by the action of —. D. D. Van Slyke, **1927**, 551.
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- Uricase** and its action; VJ. Distribution in various animals. R. Truszkowski and C. Goldmanówna, **1933**, 627.
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- l*-xyloketose in —; Simple method for detecting and determining. M. Lasker and M. Enklewitz, **1933**, 558.
- Urobilin** content of normal human blood. M. A. Blankenhorn, **1929**, 116.
- Micro-determination of copper with —. A. Emmerie, **1930**, 718.
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The Parachor and —. (Review), S. Sugden, **1930**, 226.

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Validol: Preparation and properties of —. **1935**, 47.

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Van Nostrand's Chemical Annual. 7th issue. (Review), J. C. Olsen, **1935**, 648.

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Vanadous Sulphate: A new and powerful reducing agent. A. S. Russell, **1926**, 267.

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- Vapours:** diffusion of gases and — through membranes; Apparatus for measuring. E. E. Schumacher and L. Ferguson, 1927, 253.
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- Vegetable Marrow**: Bitter —. **1934**, 41.
- Vegetable Preservation Research Station, Campden**. Report for 1933–34. **1935**, 695.
- Vegetables**: Boric acid as natural constituent of —. **1927**, 459, 460.
- Conductivity of certain —. Their acidity and degree of ripening. R. Tomii and G. Kitajima, **1933**, 551.
- copper in green —; Determination of. A. Hanak, **1930**, 583.
- Food Investigation Board Report on —. **1929**, 35.
- Freezing preservation of —. **1935**, 826.
- Fruits and —. Food Inspection Decision No. 203 of the U.S. Dept. of Agriculture. **1927**, 88.
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- Iodine content of Georgia —, and water as a factor in its variation. K. T. Holley, T. A. Pickett and W. L. Brown, **1935**, 622.
- iodine in —; Determination of traces of. J. F. McClelland and R. E. Remington, **1929**, 239.
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- Tests for snake —. D. N. Chatterji, **1930**, 683, 694.
- Ventilation**: Methods of investigating — and its effects. (Medical Research Council Reports), **1926**, 190.
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- Post-mortem transformation of dial, gardenal and — into hydrocyanogen compounds. E. Kohn-Abrest, H. Villard and L. Capus, **1930**, 291.
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- eelworm; Bionomics of the —. B. G. Peters, **1928**, 661.
- “essence”, containing formic acid. A. Kreutz and C. Büchner, **1927**, 93.
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- Fractional titration of wine —. Determination of non-volatile acids. P. Hirsch and O. Delp, **1932**, 111.
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- fulfur in —; On the presence and detection of. L. H. Lampitt, E. B. Hughes and L. H. Trace, **1927**, 257.
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- Its Manufacture and Examination. (Review), C. A. Mitchell, **1927**, 178.
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- tannin in fermentation —; Detection of. G. Reif, **1926**, 41.
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- Vitamin values of fermentation — and of artificial “essence” —. J. Krizenecky and M. Nevalonnyj, **1933**, 770.
- Wine — distinguished from other vinegars. J. Pritzker, **1934**, 117.
- Wine —, grape — and malt —. U.S. Food Inspection Decision No. 198. **1926**, 579.
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- Viscometer**: Capillary tube — for measuring the viscosity of solutions of cellulose in cuprammonium hydroxide solution. R. W. Kinkead, **1931**, 692.
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- Viscose Rayon**: Analysis of mixtures of cotton and —. B. P. Ridge and K. Turner, **1933**, 363.
- “Vita” Glass: Properties and applications of —. F. E. Lamplough, **1929**, 495.
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- antineuritic —; Isolation of the. A. Seidell and V. Birkner, **1931**, 547.
- antineuritic-; Jansen and Donath procedure for isolating —. R. R. Williams, R. E. Waterman and S. Gurin, **1930**, 590.
- antineuritic; Synthesis of — by yeast. G. L. Peskett, **1928**, 47.
- antirachitic; Relation between amount of ultra-violet light received by hens and amount of — in eggs produced. J. S. Hughes, L. F. Payne, R. W. Titus and J. M. Moore, **1926**, 207.
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- Antiscorbatic — in apples. M. F. Bracewell, E. Hoyle and S. S. Zilva, **1930**, 766.
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 standards. Report of the Permanent Commission on Biological Standardisation. **1932**, 173.
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- Vitamin A**: absorption of carotene and —; Observations on. J. C. Drummond, N. E. Bell and E. T. Palmer, **1935**, 564.
 Absorption spectra in relation to —. R. A. Morton, I. M. Heilbron and F. S. Spring, **1930**, 401.
 Absorption spectra of substances derived from —. J. R. Edisbury, A. E. Gillam, I. M. Heilbron and R. A. Morton, **1932**, 790.
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 and carotene. Transformation of carotene into — as shown by a study of the absorption spectra of rat-liver oils. N. S. Capper, **1930**, 710.
 and the antimony chloride reaction. A. Emmerie, M. von Eekelen and L. K. Wolff, **1931**, 756.
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Colorimetric determination of — by the alkali digestion method. A. W. Davies, **1924**, 357.

Colour reaction for the presence of —. O. Rosenheim and J. C. Drummond, **1926**, 93.

Colour reaction of the Japanese acid clays with liver oils and — on the market. K. Kobayashi and K. Yamamoto, **1927**, 553.

Colour reactions associated with —. W. R. Fearon, **1926**, 311.

Colour reactions of —. T. T. Cocking and E. A. Price, **1926**, 529.

colour tests for —; Effects of various agents on. S. G. Willimott, T. Moore and F. Wokes, **1927**, 241.

colour tests for sterols and —; Studies on. F. Wokes, **1928**, 550; II, Spectroscopic study of the vibrations attributed to vitamin A. F. Wokes, **1928**, 664.

Colour tests suggested for —. O. Rosenheim and T. A. Webster, **1927**, 44.

Comparison of biological and colorimetric assays for — as applied to fish oils. E. R. Norris and I. S. Danielson, **1929**, 612.

content of artificially versus naturally ripened tomatoes. M. C. House, P. M. Nelson and E. S. Haber, **1929**, 301.

content of barley. E. H. Hughes, **1934**, 121.

content of blood; New method of determining —. E. Rosenthal and C. Szilard, **1935**, 565.

content of butter; Influence of breed and diet of cows on —. C. A. Braumann and Others, **1934**, 497.

content of butter-fat; Variations in —. G. S. Fraps and R. Treichler, **1932**, 732.

content of commercial malt extract and cod-liver oil emulsion, and testing of the same for —. J. M. Jones and N. Evers, **1928**, 506.

content of cow's milk. J. Outhouse, I. G. Macy, V. Brekke and A. Graham, **1927**, 425.

content of fruits; Effect of drying and of sulphur dioxide upon —. A. F. Morgan and A. Field, **1930**, 643.

content of ghee. A. L. Bacharach, **1930**, 589.

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content of head and leaf lettuce. M. Dye, O. C. Medlock and J. W. Crist, **1927**, 552.

content of milk; Effect of pimiento feeding on —. **1935**, 826.

content of naturally coloured nut margarines. C. F. Poe and H. A. Fehlmann, **1933**, 415.

content of oats. C. R. Meyer and R. A. Hetler, **1931**, 470.

content of pimiento pepper. L. Ascham, **1934**, 122.

content of stored oils; Effect of hydroquinone on the —. R. C. Huston, H. D. Lightbody and C. D. Ball, Junr., **1928**, 665.

content of sweet potato. F. L. MacLeod and Others, **1935**, 487.

content of the herring. A. Scheunert and M. Schieblich, **1935**, 112.

content of the unsaponifiable matter of liver oils. I. S. Meno, M. Yamashita and Y. Ota, **1929**, 54.

content; Relation of — to size of leaves. L. McLaughlin, **1929**, 764.

Conversion of carotene into — by fowls. N. S. Capper, J. M. W. McKibbin and J. H. Prentice, **1931**, 473.

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Determination of —. N. Evers, **1934**, 82.

Effect of carotene and — on the oxidation of linolic acid. B. R. Monaghan and F. O. Schmitt, **1932**, 663.

Factors affecting the assay of — by the spectrophotographic method. R. J. MacWalter, **1934**, 562.

Fat-soluble — and the nation's food supply. **1928**, 286.

Fearon's colour reaction and its non-specificity for —. O. Rosenheim and T. A. Webster, **1927**, 242.

Fluorescence of some fats containing —. R. S. Morgan and K. MacLennan, **1929**, 250.

from fish livers. P. Karrer, R. Morf and K. Schöpp, **1931**, 824.

from fish oils. P. Karrer, R. Morf and K. Schöpp, **1932**, 185.

from plant sources; Relative stability of —. H. C. Sherman, E. J. Quinn, P. L. Day and E. H. Miller, **1928**, 504.

Further studies of the chemical nature of —. J. C. Drummond and L. D. Baker, **1929**, 557.

Halibut-liver oil as a source of —. J. A. Lovern, **1932**, 468.

in animal and plant cells; Research on —. P. Joyet-Lavergne, **1935**, 195.

in butter; Determination of —. G. E. Morgan and K. H. Coward, **1931**, 757.

in butter; Modified spectrophotometric method for assay of —. A. E. Gillam, **1934**, 561.

in butter; Relative biological efficiencies of the carotene and —. R. G. Booth, S. K. Kon and A. E. Gillam, **1935**, 333.

in butter-fat; Seasonal variations in —. R. G. Booth and Others, **1934**, 50.

in cod-liver oil. **1932**, 247.

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- in cod-liver oil; Permanence of — as shown by the antimony trichloride colour test. N. Evers, **1930**, 287.
- in cod-liver oil; Report on a comparison between the colorimetric (Rosenheim, Drummond) and the biological method of determining —. (League of Nations Health Organisation.) **1928**, 156.
- in cod-liver oil emulsions; Stability of —. H. N. Griffiths, T. P. Hilditch and J. Rae, **1933**, 65.
- in cod-liver oils; Comparison of tests for —. K. H. Coward, F. J. Dyer, R. A. Morton and J. H. Gaddum, **1931**, 821.
- in cod-liver oils; Determination of —, (A) biologically, (B) chemically, (C) physically. K. H. Coward, F. J. Dyer and R. A. Morton, **1933**, 105.
- in dried foods; Effect of storage on —. G. S. Fraps and R. Treichler, **1933**, 415.
- in evaporated milks made by vacuum and aeration methods. R. A. Dutcher, H. E. Honeywell and C. D. Dahle, **1927**, 720.
- in fish-liver oils. P. N. Chakravorty, H. G. Mookerjee and B. C. Guha, **1933**, 771.
- in halibut-liver oil. **1933**, 613; **1934**, 699.
- in maize; Inheritance study of distribution of —, II, — in hybrid red maize. S. M. Hauge, **1930**, 339; III, — content in relation to yellow endosperm. S. M. Hauge and J. F. Frost, **1930**, 339.
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- in margarine, butter and other fatty foods; Test for —. A. Anderson and E. Nightingale, **1929**, 481.
- in milk; Destruction of — by ultra-violet light. R. W. Titus, J. S. Hughes, W. R. Hinshaw and J. B. Fitch, **1926**, 530.
- in oils determined by a spectrophotometric method. A. Chevallier and P. Chabre, **1933**, 487.
- in "oleo oil" and oleostearine. R. Hoagland and G. G. Snider, **1926**, 311.
- in plant tissue; Influence of light and heat on the formation of —. K. H. Coward, **1927**, 355.
- in unsaponifiable lipids of ox-liver. F. C. Freytag and H. G. Smith, **1933**, 294.
- in watercress; Content of —. K. H. Coward and P. Eggleton, **1928**, 106.
- Inactivation of — by rancid fat. W. C. Powick, **1926**, 259.
- Influence of the solvent on the biological assay of —. K. C. Lathbury and G. N. Greenwood, **1935**, 195.
- International standard for —. **1932**, 522.
- Losses of — on drying fresh raw carrots, sweet potatoes and canned spinach. G. S. Fraps and R. Treichler, **1934**, 122.
- Micro-organisms and the synthesis of carotene and —. C. A. Baumann and Others, **1934**, 121.
- New colour test for determining —. E. Rosenthal and J. Erdélyi, **1934**, 562; **1935**, 835.

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- of butter. R. A. Morton and I. M. Heilbron, **1930**, 710.
- of spinach. S. G. Willimott and F. Wokes, **1927**, 652.
- Photographic effects of —. S. Botcharsky and A. Foehringer, **1931**, 547.
- potency of butter-fat. C. L. Shrewsbury and H. R. Kraybill, **1933**, 631.
- potency of irradiated milk. G. C. Supplee and O. D. Dow, **1927**, 720.
- Primary source of —. **1931**, 533.
- Quantitative determination of —. H. Steenbock and K. H. Coward, **1927**, 355.
- Quantitative differentiation from vitamin D. H. C. Sherman and M. C. Hessler, **1927**, 425; II, H. C. Sherman and H. K. Stiebeling, **1930**, 766.
- Ratfish-liver oil as a source of —. E. R. Norris and I. S. Danielson, **1930**, 206.
- reaction for cod-liver oil. **1931**, 534.
- Relation of carotene to —. E. M. Hume and I. Smedley-Maclean, **1930**, 288; J. C. Drummond, B. Ahmad and R. A. Morton, **1930**, 643.
- Relationship between the Carr-Price value and the 328m μ absorption coefficient of preparations containing —. S. K. Crews and S. J. Cox, **1934**, 85.
- Relative content of fat-soluble vitamin D and — in a series of cod-liver oils. J. L. L. Clare and K. M. Soames, **1928**, 168.
- Separation of carotene, xanthophyllen and —. P. Karrer and K. Schopp, **1932**, 582.
- Specificity in tests for —. New conception of the chromogenic constituents of fresh and aged liver oils. I. M. Heilbron, A. E. Gillam and R. A. Morton, **1931**, 823.
- Spectrographic data concerning — and liver oils. R. A. Morton, I. M. Heilbron and A. Thompson, **1931**, 470.
- Spectrographic data of natural fats and their fatty acids in relation to —. A. E. Gillam, I. M. Heilbron, T. P. Hilditch and R. A. Morton, **1931**, 471.
- Standard for — for U.S.P. cod-liver oil. **1934**, 545.
- Standards for —. **1932**, 173.
- Sterol colour reactions in their relation to —. O. Rosenheim, **1927**, 423.
- storage of —; Quantitative study of. H. C. Sherman and M. L. Cammack, **1926**, 360.
- Transformation of carotene into — *in vitro*. H. S. Olcott and D. C. McCann, **1932**, 53.
- value of the body and liver oils of certain fish. B. Ahmad and J. C. Drummond, **1930**, 403.
- Variations in the quality of butter, in relation to carotene, xanthophyll and — contents. A. E. Gillam and Others, **1933**, 630.
- Vitamin B**: Antineuritic and water-soluble — in beef and pork. R. Hoagland, **1929**, 432.
- Assay of antineuritic — and its concentration with silver. R. J. Block, G. R. Cowgill and B. H. Klotz, **1932**, 186.
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- concentration of —; Observations on the. B. C. Guha and J. C. Drummond, 1930, 148.
- content of artificially versus naturally ripened tomatoes. M. C. House, P. M. Nelson and E. S. Haber, 1929, 301.
- content of avocados. L. S. Weatherby and E. W. Waterman, 1928, 667.
- content of commercial liver extracts and stomach preparations. E. Gilroy, 1932, 120.
- content of cow's milk. J. Outhouse, I. G. Macoy, V. Brekke and A. Graham, 1927, 425.
- content of dried yeast and yeast products. 1928, 610.
- content of malt extract. A. L. Bacharach and B. Allchorne, 1928, 393.
- content of milk; Influence of the ration of the cow upon —. C. H. Hunt and W. E. Krauss, 1931, 681.
- content of polished rice koji. R. Takata, 1929, 558.
- content of the "feed" eaten and that of the milk produced; Relation between —. S. I. Bechdel and H. E. Honeywell, 1927, 721.
- Effect of nitrous acid upon components of the — complex. H. C. Sherman and M. L. Whitsitt, 1931, 197.
- extract for treatment of beriberi. 1927, 158.
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- Extraction of —. 1930, 581.
- from brewers' yeast; Further progress towards the isolation of the antineuritic —. A. Seidull, 1929, 482.
- from wheat germ; Observations on the extraction of —. E. V. McCollum and H. D. Kruse, 1926, 360.
- Further evidence of the complex nature of —. I, Evidence that a third factor exists. C. H. Hunt, 1928, 666.
- growth-promoting factor for rats, found in whole wheat; Further investigations on —. N. Halliday, 1934, 765.
- Heat and ultra-violet irradiation as means of differentiating vitamin G and — in yeast. C. Kennedy and L. S. Palmer, 1929, 674.
- in wheat and maize; Complex nature of —. C. H. Hunt, 1928, 449.
- New differentiation between the antineuritic and the purely growth-promoting —. H. M. Evans and G. O. Burr, 1928, 349.
- Nutritive value of bread, with special reference to its content in —. W. Cramer and J. C. Mottram, 1928, 49.

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- Photographic effects of —. S. Botcharsky and A. Foehringer, 1931, 547.
- Plural nature of —. A. G. Hogan and J. E. Hunter, 1928, 505.
- Quantitative study of the problem of the multiple nature of —. H. C. Sherman and J. H. Axtmayer, 1927, 721.
- Relation of — to the growth-promoting factor for a *Streptothrix*. R. A. Peters, H. W. Kinnersley, J. Orr-Ewing and V. Reader, 1928, 394.
- Solubility of — in benzene. R. R. Williams and R. E. Waterman, 1926, 470.
- Sparing action of fat on —. II, Rôle played by melting-point and degree of unsaturation of various fats. H. M. Evans and S. Lepkovsky, 1932, 468; III, Rôle played by glycerides of single fatty acids. 1932, 469.
- Standards for —. 1932, 175.
- Synthesis of — in the rumen of the cow. S. I. Bechdel, H. E. Honeywell, R. A. Dutcher, and M. H. Knutsen, 1929, 55.
- technique in testing for —; Note on. A. L. Bacharach and G. A. Hartwell, 1927, 145.
- terminology. 1929, 482.
- Tests for —. 1934, 75.
- Toxic effect of fish-liver oils and the action of —. E. R. Norris and A. E. Church, 1931, 125.
- Tripartite nature of —. R. R. Williams and R. E. Waterman, 1928, 505.
- Vitamin B₁**; Crystalline preparation of — from bakers' yeast. H. W. Kinnersley, J. T. O'Brien and R. A. Peters, 1933, 488.
- Effective method of extracting —. S. Itter, E. R. Orent and E. V. McCollum, 1935, 264.
- Formaldehyde-azo-test for —. H. W. Kinnersley and R. A. Peters, 1934, 563.
- International standard for —. 1932, 522.
- Potentiometric titration of solutions of —. R. C. G. Moggridge and A. G. Ogston, 1935, 565.
- Question of the identity of a bacterial growth-promoting factor with —. J. G. Davis and J. Golding, 1931, 56.
- Streptothrix corallinus* in the determination of —. J. Orr-Ewing and V. Reader, 1928, 394.
- Studies in —. Concentration from rice polishings. I. A. Simpson, 1931, 698.
- values of foodstuffs; Comparative —. Cereals II, R. H. A. Plimmer, W. H. Raymond and J. Lowndes, 1931, 679.
- Vitamin B₂**; Chemistry of —. B. C. Guha, 1931, 410.
- concentration and chemical nature of —; Further studies on. L. E. Booher, 1935, 50.
- Concentration and probable chemical nature of —. L. E. Booker, 1933, 709.
- Concentration of —. B. T. Narayanan and J. C. Drummond, 1930, 403.
- Concentration of — by adsorption and elution from fuller's earth. S. Lepkovsky, W. Popper and H. M. Evans, 1935, 195.
- content of cereals and the supposed connection between human pellagra and deficiency of —. W. R. Aykroyd, 1931, 56.

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- growth-promoting properties of —; Investigation of. L. E. Booher, H. M. Blodgett and J. W. Page, **1935**, 50.
- Heat and ultra-violet irradiation as means of differentiating vitamins B and — in yeast. C. Kennedy and L. S. Palmer, **1929**, 674.
- in pimientos. **1935**, 826.
- Sources of —, stability of —, and chemistry of —. B. C. Guha, **1931**, 680.
- Stability of — as measured by its growth-stimulating effect. N. B. Guerrant and W. D. Salmon, **1931**, 126.

Vitamin B₃; Williams-Waterman —. W. H. Eddy, S. Gurin and J. Keresztesy, **1930**, 591.

Vitamin C; Beef extract as a source of —. R. Hoagland and G. G. Snider, **1930**, 593.

Behaviour of — and other reductors towards catheptic and other enzymes. H. v. Euler, P. Karrer and F. Zehender, **1934**, 295.

Biological and titrimetric determination of —. H. Lund, B. Spur and L. S. Fridericia, **1935**, 112.

Chemical detection of —. B. Glassmann and A. Posdeew, **1929**, 432.

Chemical evaluation of —. **1934**, 73.

Chemical investigations on the antiscorbutic —. I. O. Rygh, A. Rygh and P. Laland, **1932**, 187; II, Narcotine and its derivatives as antiscorbutics. O. and A. Rygh, **1932**, 188.

Chemical nature of —. J. L. Svirbely and A. Szent-Györgyi, **1933**, 489.

Colour reactions of —. N. Bezssonoff and A. Delire, **1933**, 563.

concentrates from lemon juice; Preparation and properties of —. D. P. Grettie and C. G. King, **1930**, 55; J. S. Svirbely and C. G. King, **1932**, 187.

content and indophenol-reducing capacity of extracts of young germinated peas. S. W. Johnson, **1934**, 359.

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content of Baldwin apples and apple products. C. R. Fellers, M. M. Cleveland and J. A. Clague, **1933**, 771.

content of canned tomato juice. R. G. Daggs and A. G. Eaton, **1934**, 360.

content of foodstuffs; Microchemical method of determining —. T. W. Birch, L. J. Harris and S. N. Ray, **1933**, 490.

content of fresh and canned pear. V. C. Craven and M. M. Kramer, **1927**, 485.

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content of milk; Influence of the ration of the cow upon —. C. H. Hunt and W. E. Krauss, **1931**, 681.

content of orange and tomato juice; Effect of fermentation with specific micro-organisms on the —. S. Lepkovsky and E. B. Hart, **1926**, 155.

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content of prunes and apricots; Effect of drying and sulphuring on —. A. F. Morgan, A. Field and P. F. Nicfolls, **1931**, 329.

Enzymic method for the estimation of true —. H. Tauber, **1935**, 712.

Effect of — on toxins. E. Harde, **1934**, 765.

Glucoreductone for standardising 2,6-dichlorophenol-indophenol solutions used for determining ascorbic acid (—). Z. I. Kertesz, **1934**, 427.

in Baden wines; Use of Bezssonoff's reagent for detecting —. E. Remy and P. Richter, **1930**, 282.

in citrus juices. A. H. Bennett and D. J. Tarbert, **1934**, 52.

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in dried orange juice; Preservation of —. G. J. Humphrey, **1926**, 586.

in fresh and canned tomatoes. B. Clow and A. L. Martlatt, **1930**, 459.

in milk; Causes of instability of —. J. E. Jacobsen, **1935**, 565.

in plant and animal tissues; Distribution of — and its determination. O. A. Bessey and C. G. King, **1934**, 122.

in spinach; Influence of manuring on —. F. V. von Hahn and J. Görbing, **1933**, 632.

in watercress; Content of —. K. H. Coward and P. Eggleton, **1928**, 106.

Influence of — on plant and animal amy-lases. A. Purr, **1934**, 710.

isolation and identification of —. W. A. Waugh and C. G. King, **1932**, 583.

Nature of —. Study of its electrical transference. R. B. McKinnis and C. G. King, **1930**, 592.

oxidase. H. Tauber, I. S. Kleiner and D. Miskind, **1935**, 629.

Quantitative method for determining —. K. M. Key and G. K. Elphick, **1931**, 681; H. Tauber and I. S. Kleiner, **1935**, 264.

Reducing value of plant juices containing —, as determined by 2:6-dichlorophenol-indophenol. H. H. Mottern, E. M. Nelson and R. Walker, **1933**, 48.

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- Reduction capacity** of plant foodstuffs in relation to —. I, Reducing substance in lemon juices. J. Tillmans, P. Hirsch and W. Hirsch, 1932, 260; III, Content of reducing substance in different fruits and vegetables. J. Tillmans, P. Hirsch and J. Jackisch, 1932, 396; IV, Reversibility of the oxidation of the reducing substances in lemon juice. J. Tillmans, P. Hirsch and H. Dick, 1932, 397; V, J. Tillmans, P. Hirsch and R. Vaubel, 1933, 295.
- Sensitive spot reaction** for —. H. Tauber, 1935, 487, 629.
- Standards** for —. 1932, 176.
- Tests** for —. 1934, 75.
- Vitamin D:** Absence of — from carotene. T. Moore, 1930, 288.
- Absence of — from the brain. 1935, 248.
- Absorption spectra** of oils and oil constituents, with special reference to pro- —. I. M. Heilbron, E. D. Kamon and R. A. Morton, 1928, 168.
- activity of butter.** I, Chemical differentiation of the antirachitic factor of autumn and winter butter from irradiated ergosterol and the Vitamin D of cod-liver oil. S. K. Kon and R. G. Booth, 1934, 53.
- and iso-ergosterol. A. van Wijk and E. H. Reerink, 1928, 667.
- and resistance of chickens to parasitism. J. E. Eckert and L. A. Spindler, 1929, 356.
- and vitamin A content of samples of cod-liver oil; The relative —. K. H. Coward, F. J. Dyer and B. G. E. Morgan, 1932, 368.
- Assay of the antirachitic** —. K. H. Coward, 1928, 449.
- Chemical evaluation** of —. 1934, 74.
- Colour reaction** of substances containing —. W. A. Sexton, 1928, 667.
- content of butter (milk); Effect** of feeding cacao shell to cows on the —. S. K. Kon and K. M. Henry, 1935, 836.
- content of red palm oil.** W. J. Dann, 1932, 398.
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- Crystalline** —. F. A. Askew, H. M. Bruce, R. K. Callow, J. St. L. Philpot and T. A. Webster, 1932, 54; C. E. Bills and F. G. McDonald, 1932, 469.
- Effects of overdosage** of —. II, R. F. Light, G. E. Miller and C. N. Frey, 1931, 548.
- Fat-soluble** — and the nation's food supply, 1928, 286.
- Formation and destruction** of — on the irradiation of ergosterol. D. Van Stolck, E. Dureuil and Heudebert, 1929, 54.
- Formation of** — by monochromatic light. A. L. Marshall and A. Knudson, 1930, 593.
- from ergosterol; Photochemical production** of —. O. Rosenheim and T. A. Webster, 1927, 652.
- in activated ergosterol; Action** of X-radiation upon —. R. R. Harrison, R. R. Peacock and S. Wright, 1928, 667.
- in cacao shell.** A. W. Knapp and K. H. Coward, 1934, 474.

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- in cod-liver oil. 1931, 458.
- in cod-liver oil; Origin of —. A. M. Copping, 1934, 840.
- in cod-liver oil; Variation of —. 1930, 197.
- in ergot of rye. E. Mellanby, E. Surie and D. C. Harrison, 1929, 766.
- in foods. E. F. Kohman and Others, 1934, 710.
- in irradiated milk; Variation of —. 1930, 197.
- International standard** for —. 1932, 522.
- of spinach. S. G. Willimott and F. Wokes, 1927, 652.
- Parent substance** of —. O. Rosenheim and T. A. Webster, 1927, 424.
- potency** of sun-irradiated dried yeast. K. H. Coward, 1933, 772.
- problem.** I, The photochemical reactions of ergosterol. E. H. Reerink and A. van Wijk, 1930, 290.
- Quantitative differentiation** from vitamin A. H. C. Sherman and M. C. Hessler, 1927, 425; II, H. C. Sherman and H. K. Stiebeling, 1930, 766.
- Quantitative studies** of responses to different intakes of —. H. C. Sherman and H. K. Stiebeling, 1929, 674.
- Rapid and reliable test** for —. H. Jephcott and A. L. Bacharach, 1927, 243.
- Relation of cholesterol** to —. O. Rosenheim and T. A. Webster, 1927, 293.
- Relative content** of fat-soluble vitamin A and — in a series of cod-liver oils. J. L. L. Clare and K. M. Soames, 1928, 168.
- Separation of sterols** from —; New method for. S. Natelson and A. E. Sobel, 1935, 488.
- Specificity** of ergosterol as parent substance of —. O. Rosenheim and T. A. Webster, 1928, 551.
- Standard** for — for U.S.P. cod-liver oil. 1934, 545.
- Standard for the Antirachitic** —. (Medical Research Council.) 1930, 692.
- Standards** for —. 1932, 174.
- Tests** for —. 1934, 76.
- Toxicity** of —. J. B. Duguid, 1931, 266.
- Ultra-violet absorption** of —. 1934, 88.
- Vitamin E:** Chemical evaluation of —. 1934, 73; I, Some chemical and physiological properties. H. S. Olcott and H. A. Matill, 1934, 295.
- Cod-liver oil as food.** Observations on the existence of —. V. E. Nelson, R. L. Jones, G. Adams and L. T. Andregg, 1927, 604.
- esters** of —; Biological utilisation of. H. S. Olcott, 1935, 713.
- in unsaponifiable lipids of ox-liver. F. C. Freytag and H. G. Smith, 1933, 294.
- Vitamin G:** See Vitamin B.
- Vitaminforschung:** Methodik der —. (Review), C. Bomskov, 1935, 348.
- Vitaminic activity** of carotene. M. Javillier and L. Emerique, 1930, 341.
- Vitamins:** ABC of —. J. Pryde, 1929, 314.
- Addition of — to foods. 1923, 757.
- and Other Dietary Essentials. (Review), W. R. Aykroyd, 1933, 423.

Vitamins—continued.

- Application of Absorption Spectra to the Study of —. (Review), R. A. Morton, **1935**, 724.
- Bezssonoff's reaction for —. F. V. von Hahn and M. Wieben, **1932**, 534.
- Bibliographical Survey of —, 1650–1930. (Review), E. M. Salmonsens, **1933**, 186.
- biological estimations of —; Accuracy of. K. H. Coward, **1934**, 681.
- Chemical evaluation of —. A. L. Bacharach and E. L. Smith, **1934**, 70.
- chemical test for —; Discussion on. **1934**, 93.
- Cod-liver oil tablets deficient in —. (Legal Notes), **1928**, 336.
- Fat-soluble —. XXVII, Quantitative determination of vitamin A. H. Steenbock and K. H. Coward, **1927**, 355; XXVIII, Antirachitic value of cow's milk as modified by exposure of the cow to sunlight and to radiations from a quartz mercury vapour lamp. H. Steenbock and Associates, **1930**, 457; XXXVI, Carotene and vitamin A content of butter; XXXVII, Stability of carotene solutions. C. A. Baumann and H. Steenbock, **1933**, 560.
- fat-soluble-; Association of — and antioxidants in plant tissues. E. M. Bradway and H. A. Mattill, **1935**, 111.
- fat-soluble-; Influence of the cow's diet on the — of winter milk. J. Golding and S. S. Zilva, **1928**, 295.
- Fat-soluble — of milk. M. E. F. Crawford and Others, **1930**, 590.
- fat-soluble; Resistance of — to hydro-generation. L. Randoïn and R. Lecoq, **1927**, 96.
- in canned foods. E. F. Kohman and Others, **1934**, 710.
- in canned food. IV, Green peas. W. H. Eddy, E. F. Kohman and V. Carlsson, **1926**, 207.
- in canned peaches. E. F. Kohman, W. H. Eddy, V. Carlsson and N. Halliday, **1926**, 260.
- in dried fruits; II, Effect of drying and of sulphur dioxide upon vitamin A content of fruits. A. F. Morgan and A. Field, **1930**, 643.
- in Health and Disease. (Review), B. Sure, **1933**, 650.
- in heat-sterilised food. C. M. Dugdale and R. J. Munro, **1926**, 359.
- in oils. F. S. Gerona, **1930**, 588.
- in oysters. D. B. Jones, J. C. Murphy and E. M. Nelson, **1928**, 295.
- in tinned strawberries. E. F. Kohman, W. H. Eddy and N. Halliday, **1928**, 295.
- Measurement of —. **1935**, 248.
- mono-molybdophosphotungstic acid as a reagent for polyphenols and —; Rapid preparation of —. N. Bezssonoff, **1926**, 358.
- of cod-liver oil. **1931**, 533.
- of grape-fruit rind. S. G. Willimott and F. Wokes, **1927**, 241.
- of olive oil and the effect of refining. G. Bertrand, **1931**, 56.
- of orange juice. S. G. Willimott, **1928**, 294.
- Studies of —. **1928**, 286.

Vitamins—continued.

- Survey of Present Knowledge. (Review), Lister Institute and Medical Research Council. **1933**, 121.
- The —. (Review), E. Browning, **1932**, 132.
- The —. 2nd Ed. (Review), H. C. Sherman and S. L. Smith, **1931**, 491.
- water-soluble — of yeast extracts of varied origin; Differences in. L. Randoïn and R. Lecoq, **1926**, 469.
- Vitamins A, B, and C** in green plant tissues other than leaves; Quantitative studies of —. E. J. Quinn, M. P. Burtis, and E. W. Milner, **1927**, 354.
- Vitrain**: Titanium in —. **1934**, 35.
- Vixen** milk; Composition of —. E. G. Ycang and G. A. Grant, **1932**, 49.
- Volatile** flavour in grapes and grape juices; Distribution of —. J. W. Sale and J. B. Wilson. **1927**, 39.
- liquids; Apparatus for the dehydration of —. P. Lorette, **1927**, 107.
- liquids; Flask for recovery of —. M. Nierenstein, **1926**, 569.
- matter in coke; Determination of —. F. J. Eaton and S. Pexton, **1928**, 399.
- Volhard's Method** of determining copper applied to electrometric analysis. M. E. Pring and J. F. Spencer, **1929**, 576.
- Volume**: Report on Metric Units of —. British Standard Specification No. 501. **1933**, 730.
- Volumetric** Analysis. (Review), C. H. Hampshire, **1927**, 311; (Review), G. Fowles, **1933**, 62; (Review), H. P. Starck, **1935**, 129.
- Analysis. Vol. I, Theoretical Principles of —. (Review), I. M. Kolthoff, **1929**, 194; Part 2, **1929**, 257; 2nd Ed., **1931**, 832.
- Vol. II, Practical —. **1929**, 691.
- analysis; Applications of ceric sulphate in —. N. H. Furman, **1928**, 302.
- analysis; Applications of chloramine in —. A. S. Komarowsky, W. F. Filonowa and I. M. Korenman, **1934**, 436.
- analysis; Centrifuging in —. R. F. Le Guyon, **1926**, 536.
- analysis; Ceric sulphate in —. VI, Oxidation of hydrogen peroxide by ceric sulphate. Indirect determination of lead. N. H. Furman and J. H. Wallace, **1929**, 490.
- analysis; Essentials of —. (Review), H. W. Schimpf, **1927**, 368.
- analysis involving the use of liquid amalgams. S. Kaneko and C. Nemoto, **1932**, 797.
- analysis; Systematic Handbook of —. 12th Ed. (Review), F. Sutton, **1935**, 850.
- analysis; Theoretical Foundations of —. (Review), I. M. Kolthoff, **1927**, 663; 2nd Ed., **1930**, 660.
- analysis; Use of adsorption indicators in —. A. W. Wellings, **1933**, 331.
- analysis; Use of potassium manganate in —. H. Gall and M. Ditt, **1932**, 409.
- analysis; Use of solid cadmitm amalgam in —. S. Kaneko and C. Nemoto, **1932**, 538.
- analysis; Use of uranous sulphate in —. G. Vortmann and F. Bieder, **1926**, 123.
- determinations by iodate. A. Schwicker **1929**, 493.

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- determinations; Mercurimetry; a new method of —. A. L. Ionescu-Matiu, **1927**, 100.
 Glassware. (Review), V. Stott, **1929**, 497.
Volumin in the living yeast cell detected by means of neutral red. L. Heucke and W. Henneberg, **1935**, 193.
Vortmann's method of separating silver and lead; Absence of mirror formation in —. G. Vortmann, **1926**, 456.
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- Wagner's Reagent** as means of identifying atropine. C. C. Fulton, **1929**, 608.
Wallaby fur; Characteristics of —. **1929**, 696.
Wallflower Seed Oil: "Cheiranthic acid" of —. T. P. Hilditch and E. E. Jones, **1928**, 109.
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Wall-Plaster: Gaseous arsenic from —. **1932**, 155, 163.
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Walnut Oil: Composition of Californian —. G. S. Jamieson and R. S. McKinney, **1929**, 241.
Walnuts: Preservatives in —. **1934**, 30.
Warenkunde: Praktikum der —. (Review), E. Grünsteidl, **1932**, 202.
Warm Room: Inexpensive and economical —. G. Grinling, **1934**, 103.
Warranty: Applicability of —. (Legal Notes), **1927**, 494.
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Warrington: Appointment of J. G. Sherratt as Public Analyst and Agricultural Analyst for County Borough of —. **1930**, 277.
Warwick: Appointment of W. J. Rigby and F. G. D. Chalmers as Public Analysts for Borough of —. **1933**, 91.
Washing: Testing of dyestuffs for fastness to —. S. R. Trotman, **1927**, 497.
Wasserstoffes: Micro-Massanalytische Bestimmung des —. J. Linder, **1935**, 728.
Wasserstoff-Ionenkonzentration: (pH). (Review), H. Jörgensen, **1935**, 854.
 Bestimmung und Bedeutung der — in der Gerberei. (Review), H. Machon, **1931**, 844.
Waste liquors: Two new methods for determining phenol in —. H. Dehe, **1929**, 121.
Water added to milk; Cryoscopic method of detecting —. R. L. Andrew, **1929**, 210.
 added to milk; Diphenylamine test for nitrates in milk as a means of detecting. D. R. Wood, E. T. Illing and A. E. Fletcher, **1931**, 248.
 added to milk; Freezing-point of milk as means of detecting —. G. D. Elsdon and J. R. Stubbs, **1930**, 423.
 added to milk; Nitrate test for detecting —. G. W. Monier-Williams, **1931**, 397.
 aerobic non-sporulating bacteria producing gas from lactose; Significance of, in —. C. A. Perry, **1930**, 58.

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- Air-free — for sulphur dioxide determinations in foods. D. M. Freeland, **1930**, 380.
 alkali metals in —; Titrations of. J. Tillmans and E. Neu, **1932**, 121.
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 analysis; Carbonate number in —. O. Mayer, **1931**, 766.
 Analysis for Sanitary and Technical Purposes. 2nd Edition. (Review), H. B. Stocks, **1932**, 742.
 Applied Chemistry. Vol. I. —. (Review), C. K. Tinkler and H. Masters, **1929**, 311.
 as a factor in the variation in iodine content of Georgia vegetables. K. T. Holley, T. A. Pickett and W. L. Brown, **1935**, 622.
 bacteriological examination of food and —; Recent advances in. W. G. Savage, **1927**, 117.
 Bacteriology; Elements of —. 5th Ed. (Review), S. C. Prescott and C. A. Winslow, **1931**, 347.
 -borne disease. **1934**, 282.
 Chemical and bacteriological examination of —. E. Voelcker, **1934**, 816.
 Cobalt chloride as indicator for —. **1926**, 412.
 Colorimetric pH test of — or unbuffered solutions. H. T. Stern, **1926**, 100.
 Composition of — and mosquito breeding. W. Rudolfs and J. B. Lackey, **1929**, 495.
 concentrates; Determination of iodine in —. R. McCarrison, C. Newcomb, B. Viswanath and R. V. Norris, **1928**, 59.
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 Dorton Spa and its —. C. A. Mitchell, **1927**, 174.
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 drinking-; Determination of nitrates in —. W. Mulder, **1931**, 766.
 Drinking — for cattle. T. McLachlan, **1930**, 372.
 Drinking-; Microscopy of —. (Review), G. C. Whipple, **1928**, 359.
 drinking-; Removal of fluorides from —. R. H. McKee and W. S. Johnston, **1934**, 768.
 ethyl iodide in air, blood and —; Method for determining minute amounts of. I. Starr, Junr., and C. J. Gamble, **1927**, 168.
 Examination —, Chemical and Bacteriological. 6th Ed. W. P. Mason, **1932**, 277.
 Examination of —. A. Splittberger and E. Nolte. **1931**, 624.

Water—*continued.*

- faecal organisms in —; Eijkman fermentation test as an aid in detecting. L. W. Leiter, **1929**, 484.
- Fluoride in — determined colorimetrically by means of ferric chloride. M. D. Foster, **1933**, 712.
- fluorides in —; Clinical significance of. N. J. Ainsworth, **1934**, 380.
- fluorides in —; Determination of small quantities of. G. Barr and A. L. Thorogood, **1934**, 378.
- fluorine in —; Spectroscopic determination of. A. W. Petrey, **1934**, 781.
- Free and bound — determinations by the heat of fusion of ice method. W. Robinson, **1931**, 676.
- free chlorine in —; Rapid determination of. L. Leroux, **1935**, 113.
- Gasometric determination of — (moisture) by means of calcium hydride. O. Notevarp, **1930**, 344.
- hydrogen phosphide in well —; Occurrence of. O. Lüning and K. Grohm, **1934**, 55.
- hydrogen sulphide in —; Determination of. Knapp, **1932**, 793.
- in apples; Excess —. A legal defence. (Legal Notes), **1926**, 574.
- in bone meal and in meat and bone meal. J. G. Sherratt, **1935**, 170.
- in butter; Excess — and a label warranty. (Legal Notes), **1926**, 348.
- in butter; Excess —. Case dismissed on legal grounds. (Legal Notes), **1926**, 629.
- in cloves; Determination of —. **1926**, 152.
- in coal and other solids; Micro-apparatus for the gravimetric determination of —. F. Vetter, **1932**, 541.
- in compounds; Revision of nomenclature. **1926**, 193, 195.
- in cream. A. F. Lerrigo, **1928**, 488.
- in dynamite glycerin; Determination of —. T. Berth, **1928**, 108.
- in fogs; Determination of —. **1931**, 662.
- in glycerin; Determination of —. L. F. Hoyt and P. C. Clark, **1931**, 270.
- in margarine; Standard for —. (Legal Notes), **1929**, 232.
- in methyl alcohol; Determination of small quantities of —. M. M. Rising and J. S. Hicks, **1926**, 472.
- in milk; Heavy water content of —. H. Erlenmeyer and H. Gärbner, **1934**, 357.
- in organic substances; Determination of — by means of calcium carbide. A. Cantzler and S. Rothschild, **1927**, 606.
- in strychnine sulphate. W. Schnellbach, **1929**, 672.
- in substances rich in fat; Determination of crude fat and — by means of trichloroethylene. A. Heiduschka and G. Neumann, **1930**, 530.
- in tomatoes and preserved tomatoes; Composition and determination of —. A. Leonhard, **1931**, 115.
- in vegetable-tanned leather; Determination of —. R. F. Innes and J. G. M. Coste, **1931**, 335.
- in wood. **1935**, 176.

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- in wool determined by distillation. C. O. M. Steward, **1933**, 301.
- Inter-relationships of plankton and bacteria in natural purification of polluted —. C. T. Butterfield and W. C. Purdy, **1931**, 330.
- Isohydric indicators and pure — for accurate measurement of hydrogen ion concentrations and salt errors. S. F. Acree and E. H. Fawcett, **1930**, 215.
- Lead poisoning from tap —. W. E. Cooke, **1930**, 208.
- magnesia hardness in —; Determination of. W. R. Atkin and D. Burton, **1927**, 654.
- Mineral —. *See* **Mineral Water**.
- Moisture and combined — in coal. S. J. Ki, **1930**, 215.
- nitrates in —; Colour-scale for rapid determination of —. R. Gros, **1935**, 774.
- nitrite test for —; Interference of iodate in. C. F. Hickethier and A. Jacobucci, **1926**, 48.
- nitrites in —; New reagent for detecting. M. S. Vergnoux, **1930**, 151.
- organisms in —; Determination of number of. W. Plücker and W. Bärtels, **1929**, 56.
- permeability of leather. R. S. Edwards, **1932**, 828.
- Photometric micro-analysis of —. C. Urbach, **1933**, 717.
- pipes; Corrosion of —. **1931**, 182.
- pipes; Research on —. **1935**, 251.
- polluted-; Use of sulphur bacteria as indicators in the investigation of —. D. Ellis, **1926**, 530.
- Purification Control. (Review) E. S. Hopkins, **1934**, 67.
- Radio-active — and vitamin deficiency. **1935**, 616.
- Removal of iron and manganese from —. S. B. Applebaum and M. E. Bretschgër, **1934**, 768.
- River —. *See* **River Water**.
- Sea —. *See* **Sea Water**.
- softener; Suitability of — for hairdressing purposes. (Legal Notes), **1932**, 96.
- softeners; Base exchange of —. **1933**, 283.
- softening and boiler — conditioning; Control of —. Imperial Chemical Industries, Ltd. **1934**, 144.
- softening. Base exchange of zeolite process. **1930**, 46, 511; **1931**, 107; **1934**, 283; **1935**, 37.
- Solubility of antimony in —. J. Graff, **1929**, 227.
- Solubility of lead sulphate in —. H. D. Crockford and D. J. Brawley, **1935**, 196.
- Sterilisation. Imperial Chemical Industries, Ltd. **1934**, 728.
- Sterilisation by Gaseous Chlorine. (Review), **1926**, 545.
- Supplies; Examination of Waters and —. 4th Ed. (Review), J. C. Thresh, J. F. Beale and E. V. Suckling, **1933**, 727.
- Supplies of the Federated Malay States. R. W. Blair, **1933**, 574.
- supplies; Zinc in —. F. Bartow and O. M. Weigle, **1932**, 401.
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- supply in Jersey. 1934, 404.
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 well; Testing of — for pollution with illuminating gas. Regenstein, 1927, 854.
 Zinc in — determined by means of sodium diethylthiocarbamate. W. R. G. Atkins, 1935, 400.
- Water of Crystallisation:** Determination of —. Preparation of anhydrous oxalic acid and sodium sulphate. V. Cerchez and C. Panaitescu, 1933, 419.
- Water Pollution Research Board:** Report for the year 1927–28, 1929, 107; for 1928–29, 1930, 510; for 1929–30, 1931, 107; for 1931–32, 1933, 282; for 1932–33, 1934, 282; for 1933–34, 1935, 37.
 Summary of recent literature. 1930, 195.
 Technical Paper No. 4. Action of — on lead, with special reference to drinking —. H. Ingleson, 1934, 346.
 Water softening. The base exchange or zeolite process. 1930, 46.
- Watercress:** vitamins A and C in —; Contents of. K. H. Coward and P. Eggleton, 1928, 106.
- Water-Gas:** iodine in —; Occurrence of. H. Mohorčić, 1926, 51.
- Waterglass:** Rapid analysis of —. F. S. Pertschik, 1933, 641.
- Watermarks:** Artificial —. 1932, 152.
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- Water-Melons:** Sugar content of — and other types of melon. S. N. Lutochin, 1928, 101.
- Waters:** Aerated — in British Guiana. 1935, 620.
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 corrosive and plumbo-solvent —; Treatment of. 1933, 283.
 death of fishes in polluted —; Importance of factors responsible for. H. S. Pruthi, 1927, 427.
 Examination of Water Supplies and —. 4th Ed. (Review), J. C. Thresh, J. F. Beale and E. V. Suckling, 1933, 727.

Waters—continued.

- ferrous and total iron in natural —; ac'-Dipyridyl as reagent for determining. H. Müller, 1934, 305.
 fluorides in natural —; Determination of. J. M. Sanchis, 1934, 437.
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 iodine in natural —; Determination of. H. W. Brubaker, H. S. Van Blarcom and N. H. Walker, 1926, 471.
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 Nitrates in Gibraltar drinking —. 1933, 34.
 nitrites in —; A stable scale-standard for determining. R. Danet, 1928, 234.
 nitrites in sewage effluents and —; Removal and determination of. J. W. H. Johnson, 1930, 325.
 of Egypt. A. Azadian. Vol. I. 1931, 282; Vols. XII and XIII. 1931, 698.
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- Water-Soluble constituents of citrus;** Cytological study of —. J. Dufrenoy, 1929, 431.
 content of calcium and phosphorus in cabbage. W. H. and C. B. Peterson, 1927, 93.
 growth-promoting and aptineuritic substances; Differentiation between the —. S. M. Hauge and C. W. Carrick, 1926, 586.
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- Wave-length standard of length.** 1935, 470.
- Wax:** candelilla —; Hydrocarbons of. F. J. E. Collins, 1935, 269.
 Chinese —; Acids of. F. J. E. Collins, 1935, 269.
 constituents of the apple cuticle. A. C. Chibnall, S. H. Piper, A. Pollard, J. A. B. Smith, and E. F. Williams, 1932, 258.
 content and feel of Indian cottons. N. Ahmad and D. L. Sen, 1934, 431.
 esparto grass —; Acids and hydrocarbons of. F. J. E. Collins, 1935, 269.
 Flax —. W. Honneyman, 1926, 535.
 in opium; Determination of —. 1926, 494.
 in shellac; Determination of —. A. G. Stillwell, 1931, 62.
 maize —; Composition of. R. L. Shriner, F. P. Nabenhauer and R. J. Anderson, 1927, 420.
 of the felted beech coccus. B. K. Blount, 1935, 425.

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- Paraffin ———. L. D. Wyant and L. G. Marsh, 1926, 105.
 paraffin ——— in crude ———; Determination of. L. M. Henderson and S. W. Ferris, 1927, 301.
 Peat ——— from Chatham Islands, 1927, 727.
 Rose flower ———. H. Prophète, 1927, 102.
Waxes: Fluorescence analysis of ———. J. A. Radley, 1932, 626.
 Industrial Chemistry of the Fats and ——— (Review), T. P. Hilditch, 1928, 63.
 Melting and solidification points of hydro-generated oils and ——— and of their fatty acids. S. Ueno, G. Inagaki and H. Tsuchikawa, 1932, 113.
 of the sumach berry; Dibasic acids in ———. M. Tsujimoto, 1932, 266.
 Solubilities of oils and ——— in organic solvents. J. W. Poole, 1930, 212.

Weaving in ancient Egypt, 1933, 658.

Weed-Killers: Experiments with new ———. 1934, 827.

Weighing by hydrostatic compensation. M. Guichard, 1926, 596.

Weights: Atomic ———. See **Atomic Weights.** molecular-; Apparatus for determining ——— by the boiling point method. H. Rupe and N. Wassilief, 1928, 510.

Molecular ——— of saturated vapours by the effusion method. H. Eyring, 1928, 617.

Well Waters: hydrogen phosphide in ———; Occurrence of. O. Lüning and K. Brohm, 1934, 55.

testing of ——— for pollution with illuminating gas. Regenstein, 1927, 654.

West Ham: Appointment of A. E. Parkes as Public Analyst for County Borough of ———. 1932, 29; as Agricultural Analyst for ———. 1932, 163.

Western Australia: Report of the Government Analyst for ——— on the work of the Chemical Branch of the Mines Department for 1933. E. S. Simpson, 1934, 824.

Westminster: Appointment of F. W. Edwards as Additional Public Analyst for the Metropolitan Borough of ———. 1933, 533; as Public Analyst for ———. 1934, 30.

“**Wettability**” of a solid by a liquid; Determination of the ———. E. E. Bartell and H. J. Osterhof, 1928, 61.

Whale: Fatty oil of the “pilgrim” ———. Biological relations between the cholesterol and squalene. E. André and H. Canal, 1929, 605.

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Whale Oil and sperm oil and spermaceti. E. André and T. François, 1926, 200.

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 New Zealand ———. 1931, 182.

Whale-shark Liver Oil: M. Tsujimoto and H. Koyanagi, 1935, 633.

Wheat: Age of ——— determined from temperature of germination. O. Munerati, 1926, 261.

bacteriology of flour and ———; Preliminary studies in. D. W. Kent-Jones and A. J. Amos, 1930, 248. Erratum, 1930, 358.

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 Comparative biological value of proteins of, whole ———, whole maize and maize gluten. M. A. Boas-Fixsen, J. C. D. Hutchinson and H. M. Jackson, 1934, 557.
 corn; Colour reaction of the proteins of the ———. E. Rabaté and J. Fleckinger, 1930, 334.

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 gliadin; Preparation, solubility and specific rotation of ———. D. B. Dill and C. L. Alsborg, 1926, 44.

Gliadins of ———. H. Köhl, 1933, 355.
 glutenin; Nature and identity of ———. M. J. Blish and R. M. Sandstedt, 1930, 145.

grain; Colorimetric micro-reactions of the glutogenic protides and cellulosic gels of the ———. P. Bruère, 1931, 66.

grain; Sulphur and phosphorus in the various parts of ———. G. Bertrand and L. Silberstein, 1933, 617.

Iodine absorption value of ———. 1927, 89.
 Lipases of ———. I. B. Sullivan and M. A. Howe, 1933, 169.

plant; Selenium injury to ——— and its inhibition by sulphur. A. M. Hurd-Karrer, 1934, 842.

preparations; Analyses of ———. 1931, 536.
 Relation of the magnesium in the ash and the lipid-protein ration to the quality of ———. B. Sullivan and C. Near, 1927, 244.

starch; Iodine method for determining ———. 1934, 680.

vitamin B growth-promoting factor found in whole ———; Further investigations on. N. Halliday, 1934, 765.

vitamin B in maize and ———; Complex nature of. C. H. Hunt, 1928, 449.

Wheat Act, 1932: Definition of bread, flour, meal, etc. 1933, 98.

Liability of certain consignments of imported “middlings” to quota payments. R. F. W. Paul, Ltd. v. Wheat Commission. (Legal Notes), 1935, 95.

Middlings and the ———. R. and W. Paul, Ltd. v. Wheat Commission. (Legal Notes), 1934, 406.

Wheat Oil: Formation of volatile fatty acids on exposure of ——— to the atmosphere. S. C. L. Gerritzen and M. Kauffman, 1933, 999.

Wheat-rye flour and bread. P. Nottin and A. Daron, 1935, 621.

Wheats: Arsenic in ———. 1926, 552.
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Whey: Composition of commercial dried ———. W. L. Davies, 1935, 827.

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Serap and Residues; Metallurgy of —. (Review), E. R. Thews, 1930, 776.

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Willenite: Fluorescence of —. 1935, 785.

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apple and fruit juices in —; Detection of. J. Werder, 1929, 476.

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Bilberry juice detected by means of Pfahl's reaction modified for sweet —. R. Ofner, 1931, 672.

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Fruit — in grape — detected by the sorbitol process. A. Röhlting and J. Richarz, 1930, 201; G. Reif, 1930, 335; M. Klostermann and W. Fachmann, 1931, 405.

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hydroxymethylfurfural and laevulosin in port wines and other sweet —; Determination of. C. I. Kruisheer, N. J. M. Vorstman and L. C. E. Kniphorst, 1935, 704.

iron in white —; Rapid determination of. J. Ribéreau-Gayon, 1930, 136.

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- sucrose in must and —; Occurrence of. C. von der Heide and H. Mändlen, **1929**, 355.
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- Composition of Baden 1928 —, with special reference to the arsenic content and the use of Bezssonoff's reagent for detecting vitamin C. E. Remy and F. Richter, **1930**, 232.
- Divinylglycol as the cause of the bitter flavour of — suffering from bitterness. E. Voisenet, **1929**, 421.
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- Wood** and wood-working in ancient Egypt. **1933**, 659.
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- cellulose; A hydrolysis number determination for —. L. F. Hawley and L. C. Fleck, **1927**, 611.
- charcoals; Identification of "Norit" and other —. H. G. Tanner, **1926**, 50.

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- Chemical changes induced in — by saturated steam under pressure. W. G. Campbell and K. F. Taylor, **1933**, 495.
- Chemistry of —. **1928**, 222.
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- Coloured pH indicators to identify green or dry —. R. Legendre, **1927**, 361.
- Distillation; Technology of —. (Review), M. Klar, **1926**, 59.
- Distinction of old from green —. R. Lyon, G. Fron and M. Fournier, **1927**, 361.
- Dry rot in —. **1928**, 654.
- dry-rot in —; Biochemistry of. E. C. Barton-Wright and J. G. Boswell, **1929**, 358.
- Electrical resistance of — as a measure of its moisture content. A. J. Stamm, **1927**, 732.
- Fire-proof treatment of —. I, Apparatus for determining the ignition point of —. S. Uchida, S. Ai and J. Nagasawa, **1935**, 498.
- Identification of — and — charcoal fragments. J. C. Maby, **1932**, 2.
- Identification of — by chemical means. H. E. Dadsell, **1932**, 101; Part 2, Alkalinity of ash and tests for identifying coloured woods of the genus *Eucalyptus*. Australian Forests Products Technical Paper No. 15. **1935**, 475.
- lignin in —; Distribution of. G. J. Ritter, **1926**, 50.
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- preservation. Preservative properties of chlorinated coal tar derivatives. L. P. Curtin and M. T. Bogert, **1928**, 50.
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- pulp in paper; Mechanical —. C. J. J. Fox, **1932**, 455.
- pulp in paper and pulp; A method for the quantitative determination of mechanical —. B. K. Mukhopadhyay and K. K. Tamy, **1935**, 529.
- pulp in paper; Phloroglucinol method for determining mechanical —. H. B. Dunningcliff and H. D. Suri, **1932**, 354.
- pyridine in burnt —; Detection of. A. Brüning and M. Schmetka, **1934**, 432.
- Relation between durability and chemical composition of —. I. W. and H. E. Dadsell, **1932**, 314.
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- β -Elaeostearic acid glyceride and —. Partial halogen addition to unsaturated fatty acids. H. P. Kaufmann and C. Lutenberg, **1929**, 304.
- Woods**: Differentiation of green and mature —. G. Fron, **1927**, 611.
- durability of Philippine — against fungi; Laboratory tests on the. O. A. Reinking, **1931**, 474.
- Further notes on the identification of charcoals and —. J. C. Maby, **1933**, 219.
- of hoop pine and bunya pine; Chemical test for distinguishing between —. W. E. Cohen, **1933**, 636.
- of the genus *Eucalyptus*; Chemical composition of four Australian —. W. E. Cohen, A. G. Charles and A. B. Jamieson, **1934**, 128.
- of the ironbark group; Chemical composition of —. Australian Division of Forest Products Technical Paper. **1933**, 345.
- scented —; Structures of some sandal-woods and their substitutes, and other little-known. C. R. Metcalfe, **1935**, 635.
- used by the ancient Egyptians. K. P. Oakley, **1932**, 158.
- Wool**: Acidity in —. S. R. Trotman and G. N. Gee, **1933**, 418.
- acids in dyed —; Determination of. S. R. Trotman and G. N. Gee, **1933**, 174.
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- Basic amino-acids of —. A. M. Stewart and C. Rimington, **1932**, 257.
- chemical damage in —; Detection and estimation of. P. Krais, **1932**, 588.
- Cholesterol content of hair, feathers and —. H. C. Eckstein, **1927**, 422.
- cloth; Pathogenic fungus on —. A. G. Gould and E. K. Carter, **1932**, 55.
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- manure; Stanley's —. **1933**, 225.
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- scale structure of —; Method for revealing. J. Manby, **1932**, 201.
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Wools: Study of Hairs and —. (Review), J. Glaister, 1931, 696.

Woolwich: Appointment of H. A. Williams as Public Analyst for —. 1933, 91.

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Writing Inks: acidity of —; Electrometric determination of. H. A. Bromley and A. de Waele, 1926, 567.

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Infra-red rays for differentiating —. 1935, 456.

Potentiometric determination of acidity in —. H. A. Bromley and L. W. Causer, 1930, 277.

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Variations in the quality of butter, in relation to vitamin A, carotene and — contents. A. E. Gillam and Others, 1933, 630.

Xanthidrol as a reagent for urea; Preparation and properties of —. F. G. Kny-Jones and A. M. Ward, 1929, 574.

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Xenon: Atomic weight of —. 1928, 160; 1929, 295; 1933, 230; 1934, 547.

X-Ray analysis of crystals. 1928, 224.

Application of — in the classification of fibrous silicate minerals commonly termed asbestos. H. V. Anderson and G. L. Clark, 1929, 771.

crystal analysis; Industrial application of —. Dept. of Scientific and Industrial Research Report. 1934, 487.

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examination and structure of textile fibres. G. R. Levi, 1927, 615.

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number; Determination of milk fat in milk chocolate by means of a modified —. C. A. Greenleaf, 1927, 647.

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l-Xyloketose in urine; Simple method for detecting and determining —. M. Lasker and M. Enklewitz, 1933, 558.

Y

Yamagobo Oil. M. Ogura, 1928, 236.

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- Antirachitic value of irradiated —. S. K. Kon and M. Mayzner, 1930, 400.
- autolysis; Influence of antiseptics on —. H. Haehn and H. Leopold, 1935, 193.
- Blood sugar determination and separation of sugars with live —. A. L. Raymond and J. G. Blanco, 1928, 669.
- cell; Detection of volutin in the living — by means of neutral red. L. Heucke and W. Henneberg, 1935, 193.
- Cervisterol, a sterol accompanying ergosterol in —. E. M. Honeywell and C. E. Bills, 1933, 104.
- Crystalline preparations of vitamin B₁ from baker's —. H. W. Kinnerley, J. R. O'Brien and R. A. Peters, 1933, 488.
- Detection of — by the yeast gum reaction in presence of products of hydrolysis of animal proteins and of animal organs. H. Kraut, 1928, 228.
- Destro-rotatory sterol of —. Zymosterol. H. Penau and G. Tanret, 1929, 431.
- Dried — and — extracts. S. G. Willimott and F. Wokes, 1928, 609.
- ergosterol content of —; Factors determining the. I. Species. C. E. Bills, O. N. Massengale and P. S. Prickett, 1930, 522.
- extract; Test for distinguishing between meat extract and —. R. O. Blench, 1935, 256.
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- Heteroxanthine isolated from —. P. W. Wiardi and B. C. P. Jansen, 1934, 291.
- isolation of the antineuritic vitamin (vitamin B) from brewer's —; Further progress towards the. A. Seidell, 1929, 482.
- lipids of —; Chemistry of. I. Composition of the acetone-soluble fat. M. S. Newman and R. J. Anderson, 1933, 707.
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- nucleic acid and its derivatives; Micro-determination of —. W. S. Hoffman, 1927, 421.
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- Selective fermentation of glucose and fructose by brewer's —. R. H. Hopkins, 1928, 668; E. R. Dawson, 1932, 536.
- Synthesis of antineuritic vitamin by —. G. L. Peskett, 1928, 47.
- total nitrogen and solid matter in —; Determination of. R. S. W. Thorne, 1932, 182.
- Vitamin D potency of sun-irradiated dried —. K. H. Coward, 1933, 772.
- vitamins B and G in —; Heat and ultra-violet irradiation as means of differentiating. C. Kennedy and L. S. Palmer, 1929, 674.
- Yeasts:** Alcoholic fermentation of mixtures of glucose and fructose by brewer's and Sauterne —. R. H. Hopkins, 1931, 463.
- Black —. G. K. Burgwitz, 1928, 553.
- found in fermenting honey. G. E. Marvin, W. H. Peterson, E. B. Fred and H. F. Wilson, 1931, 760.
- in the manufacture of wine. 1928, 437.
- Individual resistance of — to ultra-violet rays. J. Beauverie, 1934, 563.
- Molds, — and Actinomycetes. (Review), A. T. Henrici, 1930, 774.
- Serological differentiation of —. F. Ottensooser, 1926, 638.
- Staining — with methylene blue. 1930, 711.
- Study of — by the complement-fixation test. K. Stone, 1930, 711.
- Sugar-tolerant — in chocolate-coated creams. M. B. Church, H. S. Paine and J. Hamilton, 1927, 295.
- Utilisation of Bacteria, Molds and — in Industrial Processes. (Review), H. F. Smyth and W. L. Obold, 1931, 423.
- Yellow Coralline** in foodstuffs; Detection of —. 1927, 585.
- Yellow Oleander:** Tests for —. 1927, 539.
- Yellow Phosphorus** in red phosphorus; Determination of very small amounts of —. R. H. Kray, 1927, 605.
- Yermat:** Analysis of —. 1932, 169.
- Yocco:** A new caffeine-containing drug. E. Perrot and A. Rouhier, 1926, 465.
- Caffeine in —. E. de Wildeman, 1927, 94.
- Yogurt** as a dietetic food and medicine. T. Stathopoulos, 1926, 414.
- Yohimbine:** Identification of — by micro-crystallography. G. Denigès, 1929, 179.
- Identity of quebrachine and —. Raymond-Hamet, 1928, 500.
- Methyl red as indicator for —. 1926, 316.

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of determining methoxy groups; Use of acetic anhydride in —. M. Nierenstein, 1926, 456.

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content of animals; Variations in the — with age. Influence of milk diet. G. Bertrand and Y. Beazumont, 1930, 455.

content of green and etiolated leaves; Comparison of —. G. Bertrand and A. Andreitcheva, 1934, 638.

content of the principal vegetable foodstuffs. G. Bertrand and B. Benzon, 1929, 349.

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Detection of — by induced precipitation. P. Krumholz and J. V. Sanchez, 1935, 58.

Determination of — by means of oxyquinoline. R. Berg, 1927, 494.

Determination of — with anthranilic acid. H. Funk and M. Ditt, 1933, 241.

Determination of cadmium and —. G. Spacu and J. Dick, 1928, 508.

Diphenylamine as a quantitative reagent for —. W. H. Cone and L. L. Cady, 1927, 730.

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dust; Detection and determination of the carboxyl group by distillation with — in a stream of hydrogen. A. W. van der Haar, 1930, 61.

Effect of pH on precipitation of — from acetate solutions. H. R. Fleck and A. M. Ward, 1933, 388.

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in sized cotton; Detection and determination of magnesium and —. A. Geake, 1933, 51.

in steel; Determination of —. H. A. Bright, 1934, 572.

in water; Determination of — by means of sodium diethyldithiocarbamate. W. R. G. Atkins, 1935, 401.

in water supplies. E. Bartow and O. M. Weigle, 1932, 401.

Iodimetric determination of small amounts of —. H. A. Pagel and O. C. Ames, 1930, 648.

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mercury in presence of —; Determination of. 1929, 150.

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- Oxquinoline** as reagent, for magnesium, aluminium and —. F. L. Hahn and K. Vieweg, **1927**, 431.
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- Separation of — from aluminium. J. N. Frers, **1934**, 130.
- Separation of — from aluminium, chromium and manganese. E. H. Swift, R. C. Barton and H. S. Backus, **1933**, 53.
- Separation of — from iron, nickel and manganese. **1933**, 637.
- Separation of — from nickel. **1930**, 309.
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- Separation of tin from — by means of sodium hydrosulphite. B. S. Evans, **1932**, 362.
- Toxicity of —. V. G. Heller and A. D. Burke, **1927**, 564.
- Zinc Cobaltinitrite** as means of detecting potassium. J. Adams, M. Hall and W. F. Bailey, **1935**, 843.
- Zinc Oxide**: Iron in —; Determination of small quantities of. **1926**, 506.
- Use of — in determining cobalt and manganese. J. I. Hoffman, **1932**, 272.
- Zinc Sulphate**: Ferric chloride as indicator in the titration of potassium ferrocyanide with —. P. F. Felkers, **1930**, 407.
- solution; Determination of the purity of potassium and sodium ferrocyanides by titration with —. Farbsalz-Gesellschaft, Berlin, **1929**, 437.
- Zinc Sulphide** method of measuring ultra-violet radiation, and the results of a year's observations on Baltimore sunshine. J. H. Clark, **1929**, 493.
- Sulphide in — determined by the expulsion method. J. L. Buchan, **1933**, 682.
- Zinc Uranyl Acetates**: Some optical and crystallographical properties of —. H. Inslay and W. Glaze, **1934**, 722.
- Zirconia**: Colour reaction of — with quinalizarin. A. S. Komarovskiy and I. M. Korenman, **1933**, 781.
- Zirconium**: Atomic weight of —. **1928**, 160, 289; **1929**, 295; **1931**, 538; **1934**, 547.
- Attempted separation of hafnium and — by ionic migration. J. Kendall and W. West, **1926**, 647.
- Determination of — by means of selenious acid. S. G. Simpson and W. C. Schumb, **1931**, 337.
- in ores determined by the selenite-phosphate method. S. G. Simpson and W. C. Schumb, **1935**, 273.
- in steel; Determination of —. S. G. Simpson and W. C. Schumb, **1933**, 497.

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- in steel; Determination of — by selenious acid. S. G. Simpson and W. C. Schumb, **1933**, 243.
- Phenylarsonic acid as a precipitant for thorium and —. A. C. Rice, H. C. Fogg and C. James, **1926**, 318.
- potassium in presence of —; Detection of traces of. R. D. Reed and J. R. Withrow, **1930**, 67.
- Precipitation of — by phosphates. R. D. Reed and J. R. Withrow, **1929**, 491.
- Quantitative separation of tantalum, niobium, titanium and —, and a new analytical grouping. W. R. Schoeller and A. R. Powell, **1932**, 550.
- Reaction of "aluminon" with hydroxides of beryllium, rare earths, thorium and —. A. R. Middleton, **1926**, 537.
- Separation of — from iron and aluminium. R. Lessing, **1926**, 161.
- Separation of beryllium from —. **1928**, 403.
- Separation of gallium from —. **1930**, 218.
- separation of hafnium and — from tantalum and niobium; New method for. W. R. Schoeller and E. F. Waterhouse, **1928**, 515.
- Separation of hafnium and — from titanium, cerium and thorium. L. Moser and R. Lessing, **1928**, 458.
- Separation of tantalum and niobium from titanium and —. W. R. Schoeller, **1929**, 453.
- Separation of thallium from —. **1930**, 410.
- separation of titanium from hafnium and —; New method for. A. R. Powell and W. R. Schoeller, **1930**, 605.
- Separation of tungsten from —. A. R. Powell, W. R. Schoeller and C. Jahn, **1935**, 506.
- Specific test for —. F. Feigl, P. Krumholz and E. Rajmann, **1931**, 615.
- Tests for —. F. Pavelka, **1931**, 209.
- Zirconium Salts**: Effect of titanium, manganese and — on nutrition. Richet, Gardner and Goodbody, **1926**, 98.
- Zirconium Sulphate** as a reagent for the detection of potassium. R. D. Reed and J. R. Withrow, **1928**, 456.
- detection of potassium by —; Influence of lithium, rubidium, caesium and magnesium upon the. R. D. Reed and J. R. Withrow, **1929**, 370.
- Zoomaric Acid**: Composition of —. Y. Toyama, **1927**, 727.
- Zooplankton**: Vitamin D content of —. A. M. Copping, **1934**, 840.
- Zymoflavine**: Extraction of — by means of methylal. L. Genevois and L. Espil, **1935**, 111.
- Zyosterol**: Dextra-rotatory sterol of yeast. H. Penau and G. Tanret, **1929**, 431.