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14. STEROID GLYCOSIDES AND SAPONINS

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17c. Urea and guanidine derivatives

See 5155.

17d. Other amine derivatives and amides (excluding peptides)

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18. AMINO ACIDS AND PEPTIDES; CHEMICAL STRUCTURE OF PROTEINS

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C.A., 113 (1990) 2752x, 34183d.

See also 5088, 5146, 5260, 5387, 5402, 5413, 5439, 5486.

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C.A., 113 (1990) 1155t, 1157v, 4967v.

See also 5121, 5455, 5530, 5535.

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C.A., 113 (1990) 2745x, 2981w.

See also 5153, 5197.

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C.A., 113 (1990) 4607c.

See also 5438.

19e. *Proteins of blood, serum and blood cells*

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For additional information see:

C.A., 113 (1990) 12108f, 20302e, 20529j.

See also 5424, 5482, 5490, 5493, 5875.

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For additional information see:

C.A., 113 (1990) 2980v, 20464j.

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8. SUBSTANCES CONTAINING HETEROCYCLIC OXYGEN

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See 1072.

13. STEROIDS

See 1041.

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See 1190.

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See 1143.

24. ORGANIC SULPHUR COMPOUNDS

See 1049, 1050.

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See also 1093, 1111, 1126.

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See 1160.

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See 1160.

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See also 1064, 1070, 1144.

33. CLINICO-CHEMICAL APPLICATIONS

33b. Complex mixtures and profiling (single compounds by cross-reference only)

See 1077, 1100, 1103, 1126, 1140.

34. FOOD ANALYSIS

34b. Complex mixtures (single compounds by cross-reference only)

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See also 1161, 1191.

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See also 1034.

38b. Anions

See 1034.

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Electrophoresis

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2a. General

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See also 2127.

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11. ORGANIC ACIDS AND LIPIDS

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See 2141.

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See also 2015.

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15. TERPENES AND OTHER VOLATILE AROMATIC COMPOUNDS

15a. Terpenes

See 2141.

18. AMINO ACIDS AND PEPTIDES; CHEMICAL STRUCTURE OF PROTEINS

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See also 1864, 1986, 2071.

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19. PROTEINS

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20. ENZYMES AND ENZYME ACTIVITY ESTIMATION

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See 1875.

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33b. Complex mixtures and profiling (single compounds by cross-reference only)

See 1896, 1900, 1904, 1906, 1908, 1913, 1915, 1917, 2042, 2063, 2112, 2128.

34. FOOD ANALYSIS

34b. Complex mixtures (single compounds by cross-reference only)

See 2000.

35. ENVIRONMENTAL ANALYSIS

35b. Air pollution (complex mixtures; single compounds by cross-reference only)

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36c. Various technical products

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BIBLIOGRAPHY SECTION

SUPPLEMENT TO THE
JOURNAL OF CHROMATOGRAPHY

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INDEXES

INTRODUCTION

Presenting the Subject Index for all the four different parts of the Bibliography Section as well as presenting the Index of Types of Compounds Chromatographed has become a tradition in the Journal. Because the methodological part differs substantially in different techniques, we have retained the subdivision system, using the following abbreviations: C = Liquid column chromatography, E = Electrophoresis, G = Gas chromatography, P = Planar chromatography. In the Index of Types of Compounds Chromatographed all types of methods are indicated in the individual entries by appropriate abbreviations. Entries relevant to supercritical fluid chromatography are to be looked for in the section on Gas Chromatography. Micellar electrokinetic chromatography is to be looked for in the section on Electrophoresis. In entries that are heavily populated by chromatographic papers we made a further subdivision into Techniques and Applications. In the Subject Index a selection was made in such entries and an appropriate note was attached. Commonly used sorbents and procedures were not included into the Index. Reviews are clearly indicated.

Prague (Czechoslovakia)

Z. Deyl, V. Schwarz and K. Macek

Brno (Czechoslovakia)

J. Janák

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This Index follows generally identical rules as those published in previous years i.e. references of general interest and techniques are within a given entry listed first, followed by applications and finally by papers limited to certain area of applications only. This, however, is applicable to highly populated entries, where subdivision appeared necessary. As in the past years (see J. Chromatogr., vol. 486) the individual parts of the Bibliography Section i.e. Liquid column chromatography (C), Gas chromatography (G), Planar chromatography (P) and Electrophoresis (E) were numbered separately. Therefore the respective shortening should direct the reader to one of the techniques first before looking for a particular number (identical numbers occur under different techniques). Please note that this Index refers to the entry numbers in the Bibliography Section, J. Chromatogr. Vol. 524.

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3539, 4564, 4566, 4573, 5402, 5486
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- , —, other
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3530, 4302, 4553-4555, 4571, 5254,
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G: 428, 1207
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- , metal complexes
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P: 151, 1126
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- Amino-glycosidic antibiotics (Genta-
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2861, 2867, 2873, 3953, 4878, 5694
G: 328
P: 182, 185, 861, 862, 870, 1152
- Ammonia
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G: 141, 912, 934, 1303, 1357, 1694,
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- Amphetamines, *see* Psychostimulants
- Anabolics
C: 2432, 3316, 4517, 5325, 5835
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G: 107, 625, 1254, 1272, 1686, 1995,
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- , applications, non-biological
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trogen compounds, inorganic; Phospho-
rus compounds, inorganic; Sulphur com-
pounds, inorganic
- Anorexic compounds, *see* Appetite de-
pressants
- Ansamycins (Rifamycins, Halomycins,
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C: 2878
G: 351, 736
P: 623, 860
- Anthelmintics
C: 894, 1041, 1051, 1090, 1999, 2001,
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4108, 4148, 4991, 5000
G: 449, 784, 1272
P: 896, 900, 1021
- Anthocyanes
C: 3313, 4901, 4902

- G: 371
P: 46, 619
- Anthracycline antibiotics**
C: 859, 1900, 4882, 5680, 5690, 5808
P: 402, 414, 625, 1153, 1159
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- Anthraquinones**
P: 504
- Antialcoholic agents**
E: 380
- Antiarrhythmics**
C: 930, 955, 957, 960, 963, 977, 986, 2952, 2953, 2956, 2959, 2975, 3021, 4019, 4020, 4027, 4031, 4032, 4034, 4041, 4043, 4834, 4930, 4934, 4935, 4942(review), 4953, 5741, 5743, 5747, 5750, 5753, 5760, 5762, 5764, 5765
G: 326, 328, 330, 335, 764, 1083, 1660, 1672, 1673, 1684, 2372, 2374
P: 436, 650, 894, 1170, 1171
- Antiarteriosclerotics**
C: 3061, 3066, 4022, 4502
- Antiarthritics, *see* Antirheumatics**
- Antiasthmatics**
C: 1013, 1953, 2942, 2980, 2988, 3018, 5767, 5783
G: 1672
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- Antibacterials (antiseptics, disinfectants, etc.)**
C: 1045, 1048, 1052, 1057, 1058, 1064, 1103, 1996, 1997, 2000, 2002, 2624, 2945, 3028, 3031, 3036, 3038, 3040, 3059, 3377, 3574, 4103, 4104, 4106, 4109, 4111, 4113, 4115, 4987, 4988, 4993, 4994, 4997, 4998, 5001, 5002, 5793, 5794, 5802, 5803
G: 488, 788, 1269, 1272, 2077, 2078
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- Antibiotics**
C: 841-878, 1879-1908, 2861-2880, 3925-3957, 4876-4888, 5676-5699
P: 177-186, 401-420, 623-629, 859-870, 1152-1159
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C: 841, 868, 871, 876, 1895, 1901, 1908, 2866, 5678
G: 619
P: 139, 410, 415-417, 486, 1157
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- Anticoagulants**
C: 900, 1093, 2942, 4398, 5649, 5758, 5817, 5824
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- Anticonvulsants**
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G: 326, 350, 552, 758, 776, 786, 787, 798, 1138, 1263, 1437, 1666, 1677, 1686, 2075, 2081, 2085, 2367, 2379
P: 216, 235, 897, 1177
- Antidepressants**
C: 761, 994, 997, 1014, 1028, 1032, 1034, 1036, 1037, 1101, 1980, 1986, 1987, 1991, 2982, 2985, 4064, 4080, 4087, 4096, 4968, 4976, 4977, 4980, 5772, 5786
G: 326, 765, 1667, 1684, 2060, 2067, 2081, 2367, 2373
P: 219, 671, 900, 1175
E: 1075, 1875
- Antidiabetics, oral**
C: 1085, 2018, 2021, 3067, 4150, 5015
G: 760, 795
P: 444
- Antidiarrhoeal agents**
C: 4152
G: 357, 1186
- Antiemetics**
C: 1020, 1969, 1993, 2014, 4136, 5763, 5771
G: 326, 1257, 2066, 2072, 2381
- Antiepileptics, *see* Anticonvulsants**
- Antifertility agents, *see* Contraceptives**
- Antifungal antibiotics**
C: 852, 866, 873, 1884, 2869, 3931, 4423
G: 288
P: 183, 847, 868, 905, 1154
- Antihistamines**
C: 954, 996, 1965, 2957, 2968, 2983, 2994, 2999, 3001, 3004, 3011, 3015, 4070, 4082, 4139, 4159, 4975, 5202, 5787
G: 691, 1447, 1676, 2050, 2066, 2081, 2369, 2370
P: 231, 232, 244, 658
E: 1075

- Antimmunodeficiency drugs, *see* Anti-viral agents
 Antiinflammatory agents, *see* Antirheumatics
 Antimalarial drugs
 C: 446, 763, 1047, 1054, 1061, 1063, 2004, 2975, 4110, 4117, 4119-4121, 5792, 5798, 5801
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 G: 1267
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 C: 907, 2039, 2829, 3087, 3088, 4171, 4181, 4182, 5029, 5041, 5042
 G: 482, 560, 579, 755, 890, 1120, 1240, 1286, 1312, 1315-1317, 1720
 P: 239, 668, 692, 693, 919, 1194
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 C: 4107, 4990, 5001, 5797
 G: 2387
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 Antipsoriasis drugs
 C: 1874, 2012, 2013
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 P: 210, 218, 434, 454, 508, 648, 670, 674, 726, 915
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 Antirheumatics (antiinflammatory, antiarthritics)
 C: 331, 934-942, 944-946, 1007, 1009, 1033, 1042, 1944-1952, 2218, 2945-2948, 3026, 4007-4017, 4062, 4090, 4917, 4920, 4922-4929, 4961, 4970, 5136, 5735-5739
 G: 63, 222, 326, 334, 691, 762, 763, 1180, 1249, 1251, 1262, 1656-1658, 1671, 1672, 1674, 2055, 2056, 2069, 2081, 2368-2370
 P: 209, 210, 240, 244, 433, 435, 647-649, 674, 887-890, 1027, 1166-1168
 Antiseptics, *see* Antibacterials
 Antitumor antibiotics
 C: 849, 854, 861, 865, 877, 1881, 1897, 1898, 1900, 1906, 2863, 2871, 3935, 3944, 3947, 3954, 4882, 5012, 5690, 5691, 5696, 5808
 P: 179, 414, 627, 863, 1159
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 C: 996, 1010, 1019, 2997, 3012, 3838, 4139, 4975
 G: 1274, 1276, 1277, 1998, 2066, 2076
 P: 656, 657
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 C: 978, 1091, 1096, 2983, 2994, 3004, 3063, 4145, 4961, 4964, 5016
 P: 232
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 Antiviral agents
 C: 1049, 1060, 1062, 3032, 3034, 3216, 4116, 4992, 4996, 4999, 5795, 5796, 5799
 G: 2050
 P: 1020
 Appetite depressants
 C: 1101, 4147
 G: 358
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 G: 1994, 2061
 Arsenic, *see* Cations, inorganic, analytical group IIB
 —, organo-compounds
 C: 2824, 5662
 G: 1707
 Asphalts, *see* Coal, tar and bitumens, hydrocarbons in
 Aza heterocyclics
 C: 5650
 G: 2001
 Azo and related compounds
 C: 2300
 G: 434, 1903, 2209

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- Bacteria, *see* Cells, viruses and microorganisms
 —, metabolites and taxonomy, *see* Cells, viruses and microorganisms, metabolites and taxonomical studies

Barbiturates, *see* Anticonvulsants, Anaesthetics, Hypnotics

Barium, *see* Alkaline earths

Beryllium, *see* Cations, inorganic, analytical group III

Bile acids and alcohols

- C: 350-353, 1507-1509, 2443-2450, 3445, 3449, 3453, 4527, 5334-5344
 G: 233, 234, 698, 1166-1169, 1281, 1565, 1566, 1970, 1971
 P: 136, 137, 358-360, 576-579, 816, 817, 984-986, 1117-1119

Bile pigments

- C: 777, 778, 1842-1844, 2801(review), 2802, 3855, 3856, 4840, 5643
 P: 392, 848

Biopolymers and their constituents, reviews

C: 12

—, techniques

- C: 52, 4823, 5115
 E: 1860, 1866, 1867, 1887, 2136

—, applications

- G: 481, 484
see also DNA; Enzymes; Proteins: RNA

Biotin, *see* Vitamins, biotin group

Biphenyl and derivatives

- C: 2883
 G: 3, 6, 96, 124, 146, 360, 364, 451, 453, 514, 563, 587, 633, 635, 651, 819, 898, 899, 922, 993, 1071, 1091, 1094, 1099, 1121, 1231, 1422, 1448, 1474, 1492, 1622, 1691, 1725, 1839, 1888-1890, 1914, 2018, 2190, 2211, 2243, 2265, 2350, 2351, 2355, 2408

Bismuth, *see* Cations, inorganic, analytical group I and IIA

Bitter substances

- C: 1513, 4532, 5350
 G: 1082
 P: 991
 E: 1183

α -Blocking agents, *see* Adrenergic and adrenergic blocking agents

β -Blocking agents, *see* Adrenergic and adrenergic blocking agents

Boranes and derivatives of boric acid

- G: 511, 2343
 P: 395

Boron compounds, inorganic

- C: 1174, 4218, 4219
 G: 1749, 2165

Bronchodilators

- C: 767, 981, 985, 1039, 1348, 1960,

- 1968, 1992, 2957, 2979, 2980, 2988, 3001, 4975

- G: 1041, 1251, 1447, 1659, 1663, 1671, 1672, 2050, 2065

see also Antiasthmatics

C

cadmium, *see* Cations, inorganic, analytical group I and IIA

Caesium, *see* Alkali metals

Calciferols, *see* Vitamins, D group

Calcium, *see* Alkaline earths

Calcium antagonists

- C: 958, 980, 983, 1955, 4035, 4036, 4042, 4054, 4936, 4937, 4939, 4944, 4946, 4949, 4952, 5742, 5745, 5753
 G: 338, 767, 770, 1083, 1252, 1259, 1661, 2062, 2064, 2376, 2377
 P: 215, 234, 1170, 1171

Cannabis constituents, *see* Hallucinogens (inclusive cannabis constituents)

Carbamates, *see* Pesticides, carbamates

Carbazoles

- C: 1848
 G: 144, 563, 1863, 1886, 1888

Carbohydrates (including glycoproteins)

- C: 219-272, 1380-1431, 2321-2364, 3327-3376, 4433-4462, 5240-5281
 G: 166-169, 657-661, 1126-1128, 1525-1529, 1921-1926, 2294-2297
 P: 48-62, 287-294, 520-525, 746-753, 944-949, 1073-1077
 E: 75-84, 534-548, 842-852, 1149-1160, 1505-1516, 1891-1901

—, reviews

- C: 1388, 2325, 4165, 5241
 G: 1126, 1281
 P: 521

Carbohydrates, general theory and techniques

- C: 219, 222, 223, 225, 226, 228, 232, 234, 235, 1381, 1382, 1385, 1393, 1399, 2321, 2322, 2327, 2328, 2332, 2338, 2346, 3229, 3330, 3337, 3343, 3345, 3388, 4450, 4453, 5134, 5243, 5245, 5255-5257
 G: 166, 167, 613, 659, 660, 1060, 1127, 1453, 1525, 1527, 1529, 1856, 1922, 2181, 2294
 P: 53, 59, 60, 290, 292, 472, 504, 748, 750, 948, 1073
 E: 534, 535, 843, 1149, 1505, 1891, 1894

Carbohydrates, applications, non-biological

C: 226, 229, 1398, 2326, 3345, 3346, 3366, 3368, 4435, 4438, 5248
 G: 472, 481, 1921, 1923, 1924, 2420
 P: 48, 947

—, —, food products

C: 1389, 2338, 3335, 3339, 3342, 5240
 G: 395, 432, 1128

—, —, microorganisms

C: 1390, 1397, 1766, 3329, 3338, 3341, 3764, 4446
 G: 661, 1528, 2151, 2152, 2303, 2427
 P: 49, 50, 54-56, 288, 289, 293, 520, 751, 766, 775, 946

—, —, plants

C: 1139, 1389, 1395, 3075, 4433, 5252, 5268
 G: 168, 395, 1127
 P: 52, 237, 522, 675, 682, 990

—, —, animal material

C: 224, 238, 239, 1384, 1423, 2329, 2330, 2738, 3331-3333, 3341, 3347, 4439, 5242, 5244, 5255, 5272
 G: 658, 1526, 2149
 P: 57, 283, 524, 525, 746, 752, 945, 1073, 1075, 1104

—, derivatives, acids and lactones

C: 1390, 3041, 3340, 4446
 G: 166, 677, 1925
 P: 283, 288, 294, 946
 E: 535

—, —, alcohols

C: 1395, 1423, 2324, 2328, 5240
 G: 99, 123, 166, 808, 1068, 1127, 1925
 P: 50, 472, 535

—, —, amino sugars

C: 219, 1394, 1407, 1424, 2333, 2335, 3347, 3366, 3403, 5015, 5274
 G: 166, 2152, 2294
 P: 48, 50, 54, 56, 57, 752, 945
 E: 1892

see also Glycosaminoglycans

Carbohydrates, derivatives, anhydro

C: 3075

—, —, deoxy

C: 219, 2328, 3070
 G: 166, 432, 1923, 2151
 P: 48, 49, 53
 E: 1023

—, —, methylated

G: 657
 P: 948

—, —, phosphates, *see* Phosphorus compounds, organic

Carbohydrates, derivatives, sulphur containing

C: 1384
 G: 1527, 1603, 1607
 P: 287
see also Glycosaminoglycans

—, —, other

C: 539, 2018, 3344, 4432
 G: 200, 497, 659, 660
 P: 444, 1089

Carbon

C: 1177
 G: 109, 2163
 E: 800

Carbon oxides

G: 31, 49, 109, 141, 415, 488, 508, 509, 512, 531, 541, 549, 567, 573, 904, 912, 913, 917, 933, 1022, 1285, 1324, 1326, 1347-1350, 1353, 1439, 1460, 1461, 1645, 1694, 1748, 1771, 1791, 1809, 2156, 2157, 2163, 2164, 2167, 2187, 2205, 2426, 2429

Carbonyls, *see* oxo compounds

Carboxylic acids

C: 273-298, 1432-1451, 2365-2391, 3377-3392, 4463-4483, 5282-5298
 G: 170-200, 662-681, 1129-1150, 1530-1547, 1927-1952
 P: 63-74, 295-302, 526-529, 754-757, 950-955, 1078-1080
 E: 1517, 1518

—, reviews

G: 189, 621, 1281, 1866

—, general techniques and theory

C: 273, 276, 278-280, 284, 289, 297, 1254, 2077, 2078, 2365, 2378, 2383, 2390, 3209, 3378, 3379, 3385, 3388, 3391, 3392, 4465, 4468, 4472, 4483
 G: 172, 180, 520, 625, 957, 1031, 1542, 1544, 1830, 1857, 1935, 2082, 2223, 2243, 2256, 2310
 P: 70, 717, 952, 953, 967
 E: 1518

—, higher fatty acids

C: 274, 278-280, 283, 285, 290, 299, 304, 319, 1433, 1437, 1440, 1442, 1446, 1450-1452, 1851, 2277, 2366, 2369, 2374, 2379, 2381, 2385, 2391, 2416, 2418, 3321, 3380, 3382, 3384, 3389, 3390, 3703, 4464, 4466, 4467, 4470, 4477, 4480, 4482, 4500, 4846, 4864, 5284, 5287, 5289, 5290, 5293-5296, 5308, 5331, 5519, 5525
 G: 70, 90, 91, 114, 138, 149, 170-174, 176, 179-181, 183, 187, 188, 190, 192, 193, 198, 199, 207, 212, 372,

- 375, 378, 380-382, 386, 391, 392, 397, 399, 405, 406, 420, 422, 424-426, 428, 431, 452, 480, 579, 662, 664, 665, 670, 674-676, 680, 811, 812, 843, 881, 1031, 1076, 1129, 1130, 1133, 1134, 1137, 1138, 1141, 1143, 1144, 1150, 1156, 1282, 1298, 1310, 1330, 1436, 1450, 1476, 1532, 1534, 1536, 1537, 1539, 1543, 1546, 1550, 1554, 1556, 1557, 1688, 1695, 1700, 1706, 1715, 1737, 1741, 1837, 1842, 1928, 1929, 1932, 1937, 1939, 1941, 1945-1947, 1949, 1952, 1955, 1958, 2008, 2082, 2084, 2087-2089, 2099, 2102, 2104, 2115, 2122, 2128, 2130, 2132, 2153, 2281, 2300, 2306, 2307, 2315, 2393, 2403
- P: 66, 68, 69, 72-74, 300-303, 338, 526, 529, 537, 554, 696, 756, 757, 765, 767, 776, 783, 789, 793, 795, 800, 802, 950, 951, 954, 955, 1078, 1079, 1084, 1103
- E: 1514
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- C: 291, 292, 298, 321, 1435, 1438, 2366, 3317, 3413, 4478, 4481, 5298
- G: 24, 99, 138, 142, 174, 175, 179, 182, 184-187, 189, 191, 194, 195, 200, 208, 209, 212, 214, 227, 231, 250, 373, 393, 428, 473, 480, 505, 579, 587, 592, 624, 664, 670, 688, 811, 821, 823, 838, 839, 843, 868, 897, 957, 964, 1000, 1053, 1107, 1135, 1138, 1140, 1142, 1146, 1155, 1282, 1370, 1457, 1501, 1535, 1537, 1546, 1556, 1706, 1738, 1744, 1830, 1858, 1897, 1928, 1930, 1941, 1942, 1946, 1947, 1954, 2093, 2130, 2315, 2403
- P: 64, 65, 71, 295-297, 318, 526, 757, 772, 776, 800, 955, 1103
- , lower fatty acids
- C: 281, 288, 294, 1443, 2320, 2367, 2373, 3380, 4464
- G: 68, 77, 151, 172, 180, 369, 370, 385, 387, 417, 424, 446, 469, 474, 490, 666, 667, 672, 678, 816, 818, 824, 827, 830, 845, 849, 851, 1134, 1145, 1147, 1149, 1238, 1284, 1287, 1302, 1327, 1342, 1372, 1380, 1415, 1538, 1654, 1697, 1745, 1791, 1899, 1927, 1936, 2027, 2036, 2041, 2085, 2092, 2094, 2108, 2110, 2150, 2188, 2209, 2223, 2282, 2298, 2299, 2302-2304, 2308, 2364, 2389, 2400, 2401, 2406
- P: 73, 219
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- C: 287, 293, 296, 1434, 5291, 5297
- G: 120, 197, 608, 1424, 1833, 1861, 1862
- , —, applications
- C: 295, 804, 1440, 1447, 2088, 2370, 2371, 2375, 2380, 2382, 3386, 3924, 4473, 4536, 5282, 5285, 5292, 5519, 5525
- G: 176, 178, 372, 377, 395, 396, 416, 667, 673, 794, 804, 818, 834, 845, 867, 881, 1132, 1138, 1139, 1145, 1149, 1279, 1318, 1547, 1689, 1697, 1699, 1708, 1899, 1930, 1933, 1938, 1950, 2123, 2305, 2392
- P: 299, 526
- E: 1517
- , —, lactones
- C: 163, 2376, 5286
- G: 116, 117, 119, 136, 268, 608, 610, 836, 1062, 1136, 1434, 1456, 1856, 1859, 1973, 2228, 2258
- , oxo acids
- C: 1439, 2372, 4469, 4475, 4476, 5519
- G: 178, 296, 1067, 1279, 1328
- P: 116
- , cyclic acids, techniques and theory
- C: 1229, 1432, 1436, 1441, 1443, 1444, 1514, 1946, 2147, 2288, 2368, 2377, 2380, 3387, 3536, 4318, 5288
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- , —, structural studies
 C: 622, 1697, 1703, 1709, 1717, 2692, 3580, 3714
- , acting on aldehyde or keto group of donors (E.C. 1.2.--)
 C: 612, 630, 1700, 1701, 1705, 1713, 1714, 2685, 3705, 5507, 5518, 5527, 5529
 E: 335, 336, 348, 710, 978, 1342, 1725, 1729, 1731
- Oxidoreductases, acting on CH-CH group of donors (E.C. 1.3.--)
 C: 623, 627, 1705, 2693, 5517, 5528
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- , acting on CH-NH₂ group of donors (E.C. 1.4.--)
 C: 1702, 3701, 5510, 5526
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- , acting on CH-NH group of donors (E.C. 1.5.--)
 C: 5522
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- , acting on reduced NAD or NADP as donor (E.C. 1.6.--)
 C: 625, 629, 1706, 1711, 1715, 1716, 2687, 2695, 3708, 5514
 E: 337, 709, 1722, 2047
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 C: 1696, 1707, 3706, 5512, 5520
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 C: 613, 1711, 5508
- , acting on H₂O₂ as acceptors (E.C. 1.11.--)
 C: 617, 618, 620, 621, 3716, 5524
 E: 339, 351, 711, 715, 1334, 1720, 1721, 2033, 2037, 2043
- , acting on single donors with incorporation of oxygen (oxygenases) (E.C. 1.13.--)
 C: 870, 3707, 3709, 5519, 5525
 E: 342, 2046
- , acting on paired donors with incorporation of oxygen into one donor (hydroxylases) (E.C. 1.14.--)
 C: 619, 624, 1698, 1716, 2686, 2688, 2691, 2698, 3702, 3704, 3711, 4738, 5513, 5516, 5523, 5531-5533
 E: 338, 340, 343, 979, 1332, 1333, 1338, 1340, 1728, 2038, 2042
- , —, structural studies
 C: 3713
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 C: 631, 3718, 5509
 E: 346, 1343

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C: 615, 616, 1699, 2689, 3712, 3715, 3717, 4739, 5530

E: 341, 350, 716, 1334, 1724, 2040

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C: 4745

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C: 217, 1374, 1378, 3318, 3323, 3326, 4409, 4429, 4430, 4539, 4559, 5238

G: 25, 39, 71, 217, 488, 508, 569, 609, 656, 940, 964, 1011, 1402, 1444, 1477, 1820, 1869, 1876, 2243, 2309

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C: 216, 218, 1373, 1375, 1379, 2314, 2315, 2318, 2320, 4431, 5234, 5236, 5237, 5239, 5308

G: 7, 10, 36, 38, 39, 70, 130, 149, 151, 165, 166, 328, 369, 393, 400, 415, 419, 423, 424, 430, 437, 439, 452, 474, 493, 523, 528, 529, 549, 557, 560, 561, 566, 569, 592, 600, 617, 806, 807, 826, 827, 830, 849, 858, 863, 886, 955, 962-964, 1018, 1032, 1053, 1107, 1123, 1124, 1206, 1239, 1240, 1284, 1311, 1319, 1320, 1322, 1323, 1333, 1336, 1342, 1363, 1365, 1374, 1419, 1455, 1457, 1501, 1519, 1521-1523, 1650, 1687, 1696, 1698, 1713, 1716, 1745, 1828, 1853, 1867, 1897, 1918, 1919, 1973, 2007, 2086, 2094, 2127, 2136, 2137, 2150, 2168, 2180, 2197, 2238, 2258, 2316, 2338, 2401

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C: 843, 844, 846, 847, 853, 864, 869, 875, 1089, 1092, 1880, 1883, 1889, 1893, 1896, 1905, 2864, 3925, 3928, 3937, 3946, 3948, 3956, 5679, 5689

G: 1050

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P: 159, 375-378, 596-599, 835, 836, 996, 997, 1132-1139

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Radicals

C: 1265

Radiopharmaceuticals

C: 1936, 5076, 5081, 5790

Radioprotective agents

C: 5822

Rare earths

C: 1159, 1167, 1172, 2066, 3112, 3147, 4198, 4202, 5055, 5056, 5062, 5850(review)

G: 473, 731, 971, 2011

P: 257, 261, 458, 489, 701, 702, 708, 852, 926, 1201

E: 501, 1080, 2147

Rauwolfia alkaloids

C: 761

P: 608, 845

Repellents, *see* Larvicides, insecticides

Resins, alkyd

G: 1641

—, aminaldehyde

G: 1649

—, phenolic

C: 5724

G: 315, 499, 1241, 1641, 2044

—, polyester

C: 923, 2925, 3986, 4343

G: 311, 312, 318, 324, 469, 750, 754, 1241, 1514, 1641, 1643, 2417

—, polyethylene and polypropylene glycols

C: 3083

G: 1715

Resins, poly(vinyl acetate)

G: 748, 1641

—, poly(vinyl chloride)

C: 5721

G: 316, 751, 752, 2040

—, poly(vinylpyrrolidone)

C: 4913

see also Acrylic resins; Epoxy resins; Polyolefins; Rubber (natural and synthetic); Styrene polymers

Respiratory stimulants

C: 995, 996, 5021

RNA, reviews

E: 887, 1201

—, techniques

C: 755, 757, 2766, 2780, 3832, 3833, 3836, 4820, 5625, 5626

E: 427, 429, 432, 437, 461, 463, 765, 768, 769, 1025, 1029-1932, 1113,

1114, 1397, 1398, 1410, 1443, 1446, 1447, 1796

RNA, applications, non-biological applications (*in vitro* processing)

C: 3831, 3833

E: 428, 430, 431, 433, 435, 766, 772-774, 1395, 1396, 1399, 1400, 1793, 1797-1802, 1804-1806, 2098, 2101, 2102, 2104, 2108

—, —, microorganisms

C: 1831

E: 1024, 1027, 1794, 2100

—, —, plants

C: 1831

E: 1026, 1792, 1923

—, —, animal material

P: 1142

E: 434, 436, 763, 764, 767, 770, 771, 1028, 1053, 1401, 1793, 1795, 1803, 1805, 1807, 2010, 2099, 2103, 2105, 2106, 2109

—, structural studies

C: 2782, 4824, 5632

E: 464-470, 763, 764, 769, 770, 785-788, 1445, 1488, 1792, 1827-1829, 2120

Rodenticides

C: 900, 901

Rubber natural and synthetic (inclusive pyrolysis products)

C: 913, 2923, 3981

G: 309, 325, 756, 909, 1233, 1234, 1239, 1240, 1337, 1644, 1645, 1741, 1900

E: 797

Rubidium, *see* Alkali metals**S**

Saponins and sapogenins

C: 357, 360, 2451, 3074, 4161, 4529-4531, 5347, 5348

G: 1161

P: 249, 362, 580, 684, 821, 823, 824, 908, 987, 988

Selenium compounds, inorganic, *see* Cations, inorganic, analytical group IIB

—, organic

C: 808

G: 280, 938, 1213, 1614

Senecio alkaloids

C: 773, 774, 3844

Sexual attractants, *see* PheromonesSialic acids, *see* Glycosaminoglycans

- Silicium compounds, inorganic
 G: 511, 1338, 1749, 2246
 E: 501
- , organic
 C: 920, 921, 3883, 3884(review), 5664
 G: 134, 322, 619, 730, 749, 962, 1212, 1235, 1246, 1337, 1640, 1642, 1646, 2010, 2146, 2184, 2209, 2414
- Silver, *see* Cations, inorganic, analytical group I and IIA
- Snake venoms
 C: 670, 681, 4192, 4699, 4702, 5468, 5471
 E: 234, 1665
see also respective enzymes
- , structural studies
 C: 1644, 2553, 3647, 4605
- Sodium, *see* Alkali metal
- Softeners
 C: 3980
- Soil pollution
 C: 191, 2037, 2043, 2457, 2898, 4204, 4896, 5078, 5703, 5707
 G: 115, 162, 252, 280, 297, 301, 460, 464-467, 490, 601, 602, 639, 737, 742, 745, 846, 864, 877, 882, 884, 885, 1055, 1074, 1110, 1219, 1223, 1312, 1353, 1357, 1379, 1448, 1473, 1495, 1584, 1625, 1629, 1707, 1710, 1712, 1713, 1911, 2027, 2032, 2117-2122, 2160, 2169, 2272, 2340, 2341, 2409
 P: 873, 1012
 E: 485
see also individual polluting compounds
- Solanaceae alkaloids
 C: 3846
- Spasmolytics
 C: 965, 1097, 4071
 G: 367, 1665, 1684, 2063
- Specific binding proteins (receptors)
 C: 261, 579-588, 590-603, 680, 1624, 1655-1659, 1661-1666, 1668-1690, 2667-2681, 3371, 3543, 3633, 3645, 3646, 3660-3674, 3675(book), 3676-3693, 3694(review), 3695, 3696, 3770, 3831, 4709-4716, 4718-4731, 5471-5496, 5571
 P: 600, 721
 E: 148, 199, 202, 224, 272, 288-315, 317, 318, 497, 634, 635, 654, 661, 669, 679-701, 958-970, 976, 1159, 1306-1323, 1325, 1371, 1400, 1575, 1683(review), 1684-1687, 1688(review), 1689-1713, 2009-2029, 2045, 2062
- Specific binding proteins (receptors), structural studies
 C: 478, 485, 588, 589, 594, 601, 1660, 1665, 1667
 E: 300, 316, 1324
- Sphingolipids (sulfatides, gangliosides, ceramides, cerebrosides)
 C: 313-315, 320, 1467, 2402, 2404, 2413, 2421, 3404, 3407, 3425, 4494, 4499, 5312, 5315
 G: 215, 382, 809, 1526, 2315
 P: 88, 93, 95, 100, 103, 107, 108, 110, 113, 313, 317, 321, 322, 324, 327, 329, 331, 334-336, 530, 542, 543, 546, 549, 553, 557, 559, 563-566, 764, 765, 768, 773, 774, 781, 791, 801, 803, 804, 807, 808, 812, 958, 965, 966, 974, 976, 1081, 1083, 1085-1087, 1089, 1090, 1095, 1096, 1101, 1108, 1109
- Stabilizers, *see* Plasticizers and stabilizers
- Starch components
 C: 248, 1272, 3349, 3355, 3357
 G: 2296
see also Polysaccharides
- Steroid alkaloids
 C: 768, 3839
 G: 723
 P: 844
- Steroids
 C: 328-355, 1492-1509, 2427-2450, 3438-3455, 4516-4528, 5322-5346
 G: 218-235, 689-698, 1158-1169, 1558-1567, 1959-1971, 2317-2320
 P: 119-137, 340-360, 572-579, 814-819, 978-986, 1112-1120
 E: 866, 1918
- Steroids, reviews and books
 C: 328, 2427
 G: 590, 621, 1278, 1281, 1866, 1964, 2052
 P: 571
- , general techniques and theory
 C: 335, 354, 355, 1498, 1501, 2428, 2432, 3446, 3454, 4146, 4528, 5323, 5325, 5326, 5328, 5329, 5337, 5346
 G: 1559, 1566, 2237
 P: 128, 341, 344, 345, 479, 572, 1041, 1112, 1120
see also Androstane derivatives; Oestrogens; Pregnane derivatives; Sterols
- Sterols, reviews
 G: 403

- Sterols, techniques
 C: 344-348, 1505, 2438, 3448, 3449, 4522, 4523
 G: 218, 1041, 1163, 1563
 P: 129, 132, 354, 355, 554, 802, 978, 1115
- , applications, non-biological
 C: 349, 2442, 3452, 4526
 G: 228, 402, 463, 472, 694, 820, 831, 895, 1076, 1165, 1555, 1556, 1562, 1564, 1700, 1967, 2100, 2122, 2129, 2320
 P: 353, 575
 E: 866
- , —, biological
 C: 334, 1503, 1504, 1506, 2430, 2434, 2439-2441, 3447, 3450, 3451, 4524, 4525, 5313, 5330-5333
 G: 226, 227, 229-232, 371, 695, 697, 1161, 1164, 1563, 1939, 1955, 1959, 1962, 1964, 1966, 1968, 1969, 2319
 P: 104, 123, 126, 130, 131, 133-135, 349-352, 356-358, 554, 562, 573, 574, 682, 778, 979-983, 1114
- Stimulants, *see* Psychostimulants
- Strontium, *see* Alkaline earths
- Strychnine group
 C: 759
 G: 2048
- Styrene polymers (inclusive pyrolysis products)
 C: 909, 915, 918, 919, 1931, 1933, 2921, 2918, 2926, 2930, 3987, 3990, 4912, 5721
 G: 134, 304, 312, 323, 440, 579, 750, 755-757, 1241, 1245, 1247, 1653, 1741, 2038, 2365, 2411
 P: 7, 204, 206, 207, 697
 E: 1849
- Subcellular particles
 C: 1146
 E: 496, 1854
- Sulphatides, *see* Sphingolipids
- Sulphides (thioethers) and polysulphides
 C: 1851, 3868
 G: 44, 57, 270, 272, 415, 441, 510, 620, 725, 726, 752, 937, 959, 1199, 1201, 1203, 1354, 1355, 1601, 1606, 1707, 1741, 1745, 1791, 1848, 2003, 2094, 2116, 2337, 2338
 P: 906
- Sulphonamides
 C: 1042, 1043, 1055, 1058, 1064, 2021, 2960, 3030, 3033, 3035, 3041, 3939, 4112, 4847, 4989, 4998, 5003
 G: 304, 352, 829, 1223, 1265, 1266, 2030, 2385
 P: 659-662
- Sulphonate esters
 G: 757, 973, 1205, 1545, 2127, 2339
- Sulphones
 G: 1205, 1309, 2021, 2116
- Sulphoxides
 C: 4849
 G: 1063, 1309, 1605
- Sulphur compounds, inorganic
 C: 804, 1178, 1181, 1188, 2083, 2088, 2092, 3138, 3141-3143, 4215, 4217
 G: 57, 269, 850, 937, 1054, 1055, 1702, 1752, 1791, 2155, 2198, 2204, 2412
- , organic, techniques
 C: 796, 797, 1257, 1853, 2810, 2811(review), 3869-3871, 4302, 4845, 4846, 5356, 5652, 5655
 G: 620, 2003, 2106, 2211, 2255, 2338, 2385
 P: 394, 717
- , —, acids and derivatives
 C: 792-795, 1128, 1351, 1852, 1854, 2475, 2814, 2816, 3873, 4537
 G: 498, 663, 792, 1065, 1201, 1205, 1232, 2005, 2006, 2034
 P: 1050
 E: 1146
see also Heterocyclics, sulphur
- Sulphur elemental
 G: 109, 556, 909
- Sulphur oxides
 G: 44, 109, 441, 1461, 1741, 2204, 2337
- Sunburn preventives
 G: 2414
- Surfactants, emulsifiers and detergents
 C: 1127, 1128, 2038, 2083, 3085, 3086, 4176-4180, 4537, 5040, 5838
 G: 134, 319, 488, 616, 889, 1313, 1314, 1617, 1639, 1641, 1714, 1715, 1866, 1916, 1927, 2123-2130, 2364, 2410
 P: 252, 691, 694, 918, 1193
- Suspensions, various
 E: 493, 494, 800, 1077
- Sweeteners, artificial
 C: 4149, 4151, 4171, 4583
 G: 781
 P: 1185
- Sympathomimetics, *see* Adrenergic and adrenergic blocking agents

T

Tannins

C: 208, 212, 1372, 3311, 5221, 5229

Tantalum, *see* Cations, inorganic analytical group III

Technetium, *see* Cations, inorganic, analytical group IIb

Tellurium, *see* Cations, inorganic, analytical group IIb

Terpenes

C: 359, 360, 1511-1513, 2453-2455, 3456-3460, 4532, 4533, 5347-5350

G: 236-243, 699-704, 1170-1179, 1568-1579, 1972-1983, 2321-2323

P: 139-142, 363-367, 581-583, 825-827, 989-991, 1121, 1122

E: 1183

—, general techniques

C: 359, 1511, 3460

G: 83, 106, 699, 721, 990, 991, 1018, 1079, 1170, 1171, 1571, 1856, 2256, 2258, 2322

—, applications

C: 1512, 2453, 2454, 3458, 3459, 4532, 4533, 5709

G: 228, 236-238, 240, 242, 356, 472, 477, 605, 696, 700, 704, 800, 868, 916, 1064, 1096, 1172, 1174, 1449, 1481, 1570, 1572, 1597, 1716, 1733, 1972, 1973, 1975, 2100, 2122, 2145, 2150, 2254, 2400, 2415, 2423

P: 139, 140, 363, 582, 825-827, 989, 991, 1027, 1121

—, acids

G: 242, 472, 699, 1141

—, alcohols

C: 2819, 3456, 5332

G: 114, 239, 241, 701, 721, 800, 1173, 1174, 1272, 1454, 1555, 1556, 1568, 1569, 1574, 1575, 1972, 1974-1976, 1979, 1981, 1982, 2073, 2256, 2258, 2321

P: 581, 583, 615, 990, 1116

—, resins

G: 242, 272, 1141

Tetracyclines

C: 1890, 4884, 4885, 4888, 4989, 5685

Textile dyes (including bleaching agents)

C: 3972

P: 198, 199

Textile materials

G: 1731, 1741, 2039, 2045, 2296, 2417

Thallium, *see* Cations, inorganic, analytical group I and IIa

Thiamine, *see* Vitamins, B₁

Thiazoles and isothiazoles

C: 2823, 5649

G: 110, 424, 1206, 1311, 1702, 1823, 2293, 2385

Thioamides

C: 4849

Thiocarbamates

C: 2815

G: 295, 460, 740, 1183, 1312, 1631, 1741

P: 619

Thiocyanates and isothiocyanates

G: 413, 1202, 1204, 2155

P: 1149

Thioglucosides

C: 791

Thiols

C: 95, 789, 796, 1262, 2515, 2811, 3872, 4302, 5653, 5654

G: 151, 270-273, 441, 620, 726, 959, 1284, 1245, 1831, 2003, 2004, 2337, 2338

P: 170, 485, 597, 1003, 1004

E: 1070

Thiophenes

G: 62, 498, 620, 907, 1078, 1088, 1200, 1203, 1378, 1412, 1602, 1702, 1854, 2003, 2007, 2116, 2340, 2408

E: 1069

Thiophosphates

G: 56, 133, 290, 291, 293, 302, 428, 436, 450, 457-459, 993, 1296, 1309, 1403, 1623-1625, 1693, 1792, 2020, 2021, 2113

Thioureas

C: 2813

P: 717

Thorium, *see* Cations, inorganic, analytical group III

Thyreostatics

C: 3062

Thyreoglobulins and related compounds

C: 3539

Tin, inorganic, *see* Cations, inorganic, analytical group III

—, organic

C: 809, 1863, 1865, 2828, 3882

G: 276-279, 316, 729, 865, 866, 1211, 1608, 1611, 1612, 1805, 1850, 2341, 2342

P: 617, 618

Titanium, *see* Cations, inorganic, analytical group III

- Tobacco alkaloids
 C: 2789, 2792, 3841, 4157
 G: 260-262, 707, 800, 888, 1182, 1192, 1193, 1196, 1343, 1488, 1587
- Tocopherols, *see* Vitamins, E
- Toxicological (and forensic) analysis, reviews
 C: 1108, 2024, 3069
 G: 332, 361, 1275
 P: 466, 905
- , general techniques
 C: 1103-1107, 1274, 2025, 4156, 4158, 5825
 G: 326, 329, 368, 796, 800, 2047, 2367
 P: 906
- , applications
 C: 197, 372, 890, 2023, 2973, 3022, 3041, 3068, 4154, 5325
 G: 37, 146, 164, 225, 246-248, 260-262, 277, 290, 291, 293, 342, 349, 363-367, 369, 370, 388, 436, 605, 640, 642, 645, 668, 689, 713, 717, 722, 728, 734, 774, 784, 792, 797, 799, 801, 802, 805, 932, 938, 1091, 1094, 1099, 1113, 1115, 1117, 1156, 1191, 1193, 1196, 1214, 1250, 1264, 1276, 1277, 1329, 1348, 1473, 1506, 1517, 1591, 1592, 1594, 1596, 1610, 1612, 1630, 1637, 1670, 1679, 1680, 1684-1686, 1889, 1919, 1998, 2004, 2026, 2048, 2051, 2068, 2079-2081, 2090, 2282, 2284, 2286, 2317, 2350-2352, 2382, 2391, 2392, 2394, 2397
 P: 204, 205, 235, 236, 674, 1023
 E: 488-490, 1076
see also Proteins of blood, serum and blood cells
- Toxins (non-proteinous or unidentified)
 C: 4189, 4192 (review)
 G: 156, 157, 590, 723, 1913
see also Aflatoxins; Mycotoxins
- , proteinous
 C: 510, 520, 525, 3613, 3649, 3650, 4582, 4586, 4588, 4660, 4661, 4663, 5440, 5441
 E: 141, 1246, 1598, 1609, 1610, 1626
see also Proteins of glands and gland products; Snake venoms; individual enzyme types
- , —, structural studies
 C: 2659, 5466
 E: 122, 1965
- Tranquilizers (anxiolytics)
 C: 761, 989, 993, 1023, 1024, 1095, 1970, 1977, 1984, 1987, 1988, 1994, 2992, 2995, 3013, 3023, 4050, 4067, 4075, 4079, 4088, 4093, 4094, 4297, 4398, 4979, 4984, 5286, 5769, 5771, 5773
 G: 343, 345, 349, 784, 785, 798, 844, 1254, 1679, 1680, 2071
 P: 1177
- Transferases, transferring one atom groups (methyl-, hydroxy-, formyl-, carbonyl-, carbamoyl-, amidine) and related transferases (E.C. 2.1.--)
 C: 637, 1733, 2700, 2708, 4747, 5541
 E: 353, 985, 1347
- , —, structural studies
 C: 1722, 1728, 1730
- , transferring acyl- and aminoacyl groups (E.C. 2.3.--)
 C: 638, 642, 645, 1725, 1755, 2702, 2703, 2707, 3722, 4746, 4751, 4752, 4754, 4755, 5543-5545
 E: 362, 720, 721, 1345, 1734, 2051, 2052
- , transferring glycosyl residues (hexosyl and pentosyl transferases) (E.C. 2.4.--)
 C: 634, 635, 643, 647, 1726, 1734, 2705, 2706, 3724, 5536, 5540, 5542
 P: 1140
 E: 356-358, 361, 363, 1344, 1609, 1738, 2050
- , —, structural studies
 C: 468, 635, 4748
 E: 1735
- , transferring alkyl or aryl groups (E.C. 2.5.--)
 C: 632, 639, 640, 1719, 1723, 1727, 1731, 1732, 1743, 3721, 3726, 3728, 5546, 5547
 E: 984, 986, 1346, 2049, 2053
- , —, structural studies
 C: 2551, 3725, 4749, 4750, 5535
- , transferring nitrogenous groups (E.C. 2.6.--)
 C: 633, 641, 1721, 1729, 2701, 2704, 2709, 3723, 3727, 5537, 5539, 5548
 E: 355, 719, 1737
- , transferring phosphorus containing groups (E.C. 2.7.--)
 C: 643, 648-659, 1735-1737, 1739-1744, 1746, 1747, 1801, 2710-2717, 3228, 3729-3747, 4756-4762, 5411, 5549-5572
 E: 213, 360, 361, 364-379, 381, 382, 722, 723, 726-729, 987-999, 1349-1356, 1736, 1739, 1741-1743, 1745-1748, 2054-2058, 2060-2062

Transferases, transferring phosphorus containing groups (E.C. 2.7.--), structural studies

C: 648, 1588, 1738, 1745, 3572

E: 724, 1744, 2059

—, transferring sulphur containing groups (E.C. 2.8.--)

C: 646, 1724, 2950, 3720, 5538

E: 359

—, activity measurements

P: 858

Triazines and triazanes

G: 814, 825, 829, 878, 885, 1223, 1225, 1448, 1632, 1633, 1726, 2026, 2030, 2113, 2120

Triazoles

G: 745, 1230, 1633, 1719

Tropine alkaloids

C: 762, 987, 1018, 1834, 2784, 2793, 4833, 5637, 5638, 5640

G: 326, 722, 1276, 1593-1595, 1684, 1686, 2331, 2390

P: 166

Trypsin inhibitor (antitrypsin)

C: 608, 2353, 2626, 2634, 4683

E: 623

—, structural studies

C: 1590, 3699

Tryptophan metabolites

C: 390, 3859, 3864

G: 2000

Tuberculostatics

C: 1044, 1050, 1059, 3028, 3031, 3036, 5800

G: 2335

Tungsten, *see* Cations, inorganic, analytical group IIb

U

Uranium, *see* Actinides and uranium

Urethanes and polyurethanes (including pyrolysis products)

C: 925, 2929, 4907, 4911

G: 305, 308, 324, 1237, 1241, 1726, 2208, 2417

Uricosuric drugs

C: 845

G: 2386

Urea and urea derivatives

C: 399, 4546

G: 299, 300, 465, 1228, 1446

P: 586

see also Thiourea

Uric acids

C: 727, 735, 5624

G: 1279

V

Vanadium, *see* Cations, inorganic, analytical group IIb

Vasoconstrictors

C: 985, 1005, 1968, 4139

G: 1261

P: 667

Vasodilators (including coronar vasodilators)

C: 443, 772, 947, 949, 956, 964, 972, 979, 982, 986, 1022, 1868, 1962, 1963, 2949, 2964, 2969, 2971, 4025, 4037, 4039, 4938, 4943, 4951, 5639, 5744, 5749, 5755

G: 328, 335, 337, 338, 625, 735, 764, 771, 1256, 1259, 1655, 1661, 1662, 2057, 2063, 2371, 2377

P: 214, 438, 441, 1022

Venoms, proteinous, *see* Proteins, of glands and gland products; Toxins, proteinous; individual enzyme types

Vitamins (for vitamin protein complexes, *see* Specific binding proteins)

C: 814-840, 1868-1878, 2834-2860, 3889-3924, 4860-4875, 5665-5675

G: 33, 2344-2347

P: 174-176, 398-400, 620-622, 853-858, 1007, 1150, 1151

E: 1463, 1464

—, reviews and books

G: 590, 2061

—, techniques for fat soluble vitamins

C: 2839, 3911, 4870

G: 626, 1435

P: 856

E: 1464

—, techniques for water soluble vitamins

C: 817, 2854, 3906, 3921, 5672

P: 856, 1048

E: 1464

—, A group (including synthetic retinoids)

C: 600, 814-816, 818, 820, 826, 830, 831, 834, 906, 1377, 1869, 1871, 1874, 1877, 2012, 2013, 2385, 2836(review), 2840, 2852, 3890, 3896-3898, 3900, 3905, 3910, 3912, 3914, 3915, 3920, 3923, 4862, 4865, 4867, 4872, 4874, 4900, 5715, 5716

- G: 287, 626, 2013
 P: 174, 428, 429, 837, 1015
see also Pigments, natural (and fluorescent substances)
- Vitamins, B₁
 C: 833, 2838, 2841, 2856
 G: 727
 P: 176, 853, 854
- , B₂ and other flavins
 C: 2838, 2841, 2856, 3904, 4861, 5665
 P: 176, 858
 E: 1463
- , B₆ group
 C: 837, 1868, 1875, 2843, 3903, 3918
 G: 1851
 P: 176, 620
- , B₁₂ group
 C: 2845, 4863
- , C group
 C: 839, 1872, 1876, 2847, 2857, 3891, 3892, 3902, 3908, 3924, 4866, 5668, 5670, 5673, 5675
 G: 1851, 1918
 P: 175, 621
- , D group
 C: 828, 829, 838, 2834, 2842, 2851, 2855, 3711, 3907, 3917, 4860, 4867, 4873, 5666
 G: 625, 626
 P: 399, 857
- , E
 C: 823, 824, 832, 836, 1870, 2844, 2846, 2858, 3899, 3901, 3912, 3919, 4864, 4869, 5667
 G: 626, 675, 1076, 1217, 1562, 1616, 1705, 1716, 2344, 2345
 P: 1007, 1151
- , K group
 C: 1870, 1873
 P: 400, 622
- , U
 C: 827
- Volatiles, flavours, odours, *see* Organoleptics

W

Water

- C: 2093, 4221
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