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Liquid Column Chromatography

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See also 4077, 4083, 4088, 4091, 4104, 4177, 4225, 4254, 4290, 4291, 4467, 4631, 4680, 4855, 4864.

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4. SPECIAL TECHNIQUES

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5. HYDROCARBONS AND HALOGEN DERIVATIVES

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5c. Halogen derivatives

See 4121.

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8. SUBSTANCES CONTAINING HETEROCYCLIC OXYGEN

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18. AMINO ACIDS AND PEPTIDES; CHEMICAL STRUCTURE OF PROTEINS

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19. PROTEINS

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Gas Chromatography

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- 1444 Wong, S.H.Y. (Editor): *Therapeutic Drug Monitoring and Toxicology by Liquid Chromatography. Chromatogr. Sci. Ser., Vol. 32*, M. Dekker, New York, 1985, XV + 500 p. - sometimes GC is mentioned.

See also 1447, 1465, 1481, 1486, 1504, 1610, 1643, 1645-1651, 1653, 1655, 1676, 1678, 1681, 1682, 1692, 1721, 1725, 1729.

2. FUNDAMENTALS, THEORY AND GENERAL

2a. General

- 1445 Degen, J., Look, R. and Wernicke, R.: Mathematische Beschreibung von Peaks. *LaborPraxis*, 9 (1985) 317-322 - useful also for GC.
- 1446 Harper, A.M.: Chemometrics applied to gas chromatography. In: S.A. Liebman and E.J. Levy (Editors), *Pyrolysis and GC in Polymer Analysis, Chromatogr. Sci. Ser.*, Vol. 29, M. Dekker, New York, 1985, pp. 373-398 - a review with 45 refs.

2b. Thermodynamics and theoretical relationships

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See also 1526, 1628.

2c. Relationship between structure and chromatographic behavior

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See also 1486, 1538, 1547, 1560, 1566, 1567, 1578, 1601, 1625.

2d. Measurement of physico-chemical and related values

- 1459 Ashworth, A.J. and Price, G.J.: Mixed solvents in gas-liquid chromatography. Activity coefficients for chloroform, dichloromethane and ethyl acetate in squalane-dinonly phthalate mixtures at 303°K. *J. Chromatogr.*, 324 (1985) 231-241.
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- 1461 Glinzer, O.: Eine allgemeine Dampfdruckbeziehung für *n*-Alkane mit Anwendungen für die Erweiterung der simulierten Destillation zur Charakterisierung von technischen Destillationsrückständen. *Erdöl, Kohle, Erdgas, Petrochemie*, 38 (1985) 213-224.
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3. GENERAL TECHNIQUES

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- 1466 Hunt, R.J., Wadsworth, J.H.F. and Hubbard, F.V.: Gas chromatography oven. *Brit. UK Pat. GB* 2,141,358 (Cl. G01N31/08), 19 Dec. 1984, Appl. 83/16,267, 15 Jun. 1983, 13 pp.; *C.A.*, 102 (1985) 124814n.
- 1467 Kolb, B., Jaklin, M., Pospisil, P., Boege, D. and Riegger, H.: (Sample transmitter for gas chromatographs). *Ger. Pat. DE* 2,857,811 (Cl. G01N31/08), 6 Sep. 1984, Appl. 26 Apr. 1978, 7 pp.; *C.A.*, 102 (1985) 105370y.
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- 1469 Sonchik, S.M. and Walker, J.Q.: GC applications using an auxiliary multi-purpose oven. *Am. Lab. (Fairfield)*, 17, No. 2 (1985) 58-66.
- 1470 Stolyarov, B.V., Kokovina, L.A. and Bubnov, E.P.: (Device for rapid reach of equilibrium between liquid and gas in reaction systems applied to chromatographic head space analysis). *Zavod. Lab.*, 85, No. 5 (1985) 17-19.

See also 1439, 1441, 1442, 1492, 1494, 1499, 1509, 1512, 1541, 1575, 1682, 1739, 1787.

3b. Detectors and detection reagents

- 1471 Annino, R., Cheney, M.C. and Fletcher, K.S.: Apparatus and method for determining the amount of a sample gas component. *U.S. Pat.* US 4,496,433 (Cl.204-1T; G01N27/58), 29 Jan. 1985, Appl. 566,345, 28 Dec. 1983, 7 pp.; *C.A.*, 102 (1985) 105389m.
- 1472 Kawazoe, K., Kamo, T., Takata, Yo. and Shikama, N.: (A photoionization detector with helium discharge for gas chromatography). *Bunseki Kagaku*, 34 (1985) 309-313.
- 1473 Nelson, J.K.: Fluorine-induced chemiluminescence detection of reduced sulfur compounds in gas chromatography. *Univ. Microfilms Int.*, Order No. DAB422632 (1984) 140 pp.; *C.A.*, 102 (1985) 100037k.
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See also 1442, 1500, 1509, 1515, 1540, 1553, 1606, 1632, 1691, 1699, 1701, 1728, 1836, 1844, 1864.

3c. Sorbents, carriers, column and layer performance, packing procedures

- 1475 Chong, E., deBriceno, B., Miller, G. and Hawkes, S.: Spectroscopy and the classification of liquid stationary phases in gas-liquid chromatography. *Chromatographia*, 20 (1985) 293-302.
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- 1481 Jennings, W.G.: The state of the art for gas chromatography. In: H. Jaeger (Editor), *Glass Capillary Chromatography in Clinical Medicine and Pharmacology*, M. Dekker, New York, 1985, pp. 33-52 - a review with 54 refs.
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- 1487 Sopkova, A. and Singliar, M.: The sorptive abilities of tetracyano complexes. In: J.L. Atwood, J.E.D. Davies and D.D. Macnicol (Editors), *Inclusion Compounds*, Vol. 3, Academic Press, London, 1984, pp. 245-256.
- 1488 Sultanov, N.T., Andronikashvili, T.G., Markaryan, K.G. and Arustamova, L.G.: Chromatographic analysis on columns with a liquid-crystalline stationary phase. *Sobshch. Akad. Nauk Gruz. SSR*, 115 (1984) 549-552; *C.A.*, 102 (1985) 105432v.

- 1489 Vetrova, Z.P., Karabanov, N.T., Ivanova, L.A. and Shuvalova, T.N.: (Adsorbent for gas chromatography). *U.S.S.R. Pat.* SU 1,125,002 (Cl. B01D15/08), 23 Nov. 1984, Appl. 3,592,572, 22 Feb. 1983; *C.A.*, 102 (1985) 97387s.
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See also 1424, 1451, 1478, 1501, 1531, 1630, 1633, 1743.

3d. Quantitative analysis

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See also 1503, 1506.

3e. Preparative scale chromatography

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See also 1537.

3f. Programmed temperature, pressure, vapors, gradients

- 1495 Walters, F.H. and Deming, S.N.: A two-factor simplex optimization of a programmed temperature gas chromatographic separation. *Anal. Lett.*, 17/A19 (1984) 2197-2203.

See also 1797.

3g. High performance procedures

- 1496 Sterkhov, N.A. and Chizhkov, V.P.: (Circulation gas chromatography on glass capillary columns). *Zh. Anal. Khim.*, 40 (1985) 865-871.

See also 1468.

4. SPECIAL TECHNIQUES

4a. Automation and computerization

- 1497 Boege, D.: Chromatographics 3. *LaborPraxis*, 9 (1985) 241-244.
- 1498 Kimpenhaus, W. and Rohrschneider, L.: Laborautomation und Labordatenverarbeitung: Zielsetzungen und Lösungswege aus der Sicht eines industriellen Analysenlabors. *Fresenius' Z. Anal. Chem.*, 321 (1985) 7-16.
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See also 1503, 1505, 1506, 1513, 1514, 1792.

4b. Combination of various chromatographic techniques

See 1550, 1637, 1652, 1707, 1770, 1808, 1849.

4c. Combination with other physico-chemical techniques (MS, IR etc.)

- 1500 Chang, C.: Parallel mass spectrometry for high performance GC and LC detection. *Am. Lab. (Fairfield)*, 17, No. 3 (1985) 59-66; *C.A.*, 102 (1985) 159764y.
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- See also 1475, 1517, 1549, 1550, 1562, 1577, 1586, 1595, 1599, 1604, 1607, 1622, 1635, 1661, 1679, 1684, 1685, 1694, 1697, 1702, 1703, 1714, 1717, 1721, 1732, 1749, 1758, 1780, 1796, 1804, 1849, 1865.

4e. Functional analysis

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- 1518 Liu, Shichun: (Determination of functional groups in organosilicon compounds by reaction chromatographic method). *Fenxi Huaxue*, 12 (1984) 796; *C.A.*, 102 (1985) 105419w.
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- 1520 Stepanenko, V.E.: (Group analysis and pattern recognition as a basis of chromatographic identification). *Zh. Anal. Khim.*, 40 (1985) 881-886.

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4f. Trace analysis and preseparation techniques

- 1521 Baba, Sh., Akira, K. and Horie, M.: Application of radioisotope tracer technique to analytical gas chromatography: Determination of gas chromatographic peak yield. *J. Chromatogr.*, 241 (1985) 251-259.
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See also 1453, 1533, 1692, 1719, 1853, 1858.

4g. Separation of enantiomers

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See also 1419, 1612, 1688, 1690.

4h. Other special techniques

- 1525 Stolyarov, V.V., Kokovina, L.A. and Kartsova, L.A.: (Chromatokinetic determination of initial concentration of a substance reacting in a chromatographic column-reactor). *Zh. Anal. Khim.*, 40 (1985) 535-538.
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See also 1434, 1435, 1436, 1465, 1470, 1685, 1854.

5. HYDROCARBONS AND HALOGEN DERIVATIVES

5a. Aliphatic hydrocarbons

- 1527 Berman, S.S., Sokolova, I.M., Matveeva, I.A. and Petrov, A.A.: (Retention indexes of C₉₋₁₀ saturated model hydrocarbons). *Neftekhimiya*, 24 (1984) 748-750.
- 1528 Katoh, T., Katoh, Y. and Ouchi, K.: (Analysis of oil obtained from mild hydrogenation of Shinyubari coal. Analysis of saturate fraction). *Bunseki Kagaku*, 34 (1985) 295-302.
- 1529 Langmaack, H.-J.: Optimization of hydrocarbon jellies from components defined by analysis. Part 1. *Fette, Seifen, Anstrichm.*, 87 (1985) 34-42.

See also 1461, 1486, 1508, 1519, 1745, 1762, 1817, 1850.

5b. Cyclic hydrocarbons

- 1530 Adamtsova, E., Berezkin, V.G., Vodichka, L., Kurashev, M.V., Popova, T.P. and Shiryaeva, V.E.: (Gas chromatographic determination of C₁₁-C₁₂ alkylnaphthalene isomers). *Neftekhimiya*, 25 (1985) 264-270.
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See also 1483, 1543, 1796, 1814, 1819, 1820, 1821, 1849, 1856, 1861.

5c. Halogen derivatives

- 1532 Castello, G. and D'Amato, G.: Gas chromatographic separation and identification of linear and branched-chain alkyl bromides. *J. Chromatogr.*, 324 (1985) 363-371.
- 1533 Dumas, T. and Bond, E.J.: Analysis of methyl bromide at ultra low concentration levels. *J. Agric. Food Chem.*, 33 (1985) 276-278.
- 1534 McKay, G.: Gas chromatographic determination of ethylene dibromide in flour products. *J. Assoc. Off. Anal. Chem.*, 68 (1985) 203-205.
- 1535 Rinne, D. and Bieber, C.: GC-head-space für leichtflüchtige Halogenkohlenwasserstoffe. *LaborPraxis*, 9 (1985) 20-29.

See also 1793, 1800, 1815, 1838, 1845, 1846, 1860.

5d. Complex hydrocarbon mixtures

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See also 1794, 1797, 1801, 1809.

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See 1760.

8c. Other compounds with heterocyclic oxygen

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See also 1712, 1782, 1851.

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See also 1688.

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See also 1502.

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See also 1161, 1162, 1332.

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See also 1278.

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See also 1284, 1388.

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16. NITRO AND NITROSO COMPOUNDS

See 1430.

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See also 1325.

17c. Amine derivatives and amides (excluding peptides)

See 1328.

18. AMINO ACIDS AND PEPTIDES; CHEMICAL STRUCTURE OF PROTEINS

18a. Amino acids and their derivatives

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See also 1141, 1148.

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19. PROTEINS

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See 1300.

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20b. Transferases (excluding E.C. 2.7.-.-)

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21a. Purines, pyrimidines, nucleosides, nucleotides

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21b. Nucleic acids, RNA

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21f. Structural studies of nucleic acids

See 1306, 1311.

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See also 1325.

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35. SOME TECHNICAL PRODUCTS

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PUBLICATION SCHEDULE FOR 1985

Journal of Chromatography (incorporating *Chromatographic Reviews*) and *Journal of Chromatography, Biomedical Applications*

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INFORMATION FOR AUTHORS

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