

## Index of Types of Compounds Chromatographed

---

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 the individual parts of the Bibliography Section i.e. Liquid column chromatography (L), Gas chromatography (G), Planar chromatography (P), Gel electrophoresis (E) and Capillary electrophoresis and electrokinetic chromatography (C) 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. A*, Vols. 940 and 941.

### A

#### Acaricides

L: 715

G: 1843

#### Aconitum alkaloids

L: 590

#### Acrylic resins (inclusive pyrolysis products)

L: 726, 733, 734, 1806, 1807

G: 466, 789, 791, 896, 1200, 1209, 1210, 1806, 1807, 1809, 1810, 1812

#### Actinides and uranium

L: 963, 2172

C: 547

#### Adrenergic and adrenergic blocking agents

L: 25, 760, 769, 775, 808, 821, 1370, 1844, 1848, 1850, 1853, 1855, 1861-1863, 1879, 1886, 1888, 1904, 2750, 2885, 2887, 2888, 2891, 2892, 2896, 2897, 2902, 2907-2909, 3226, 4017, 4019, 4020, 4023, 4028, 4029, 4033, 4073

G: 385, 798, 1213, 1220-1222, 1225, 1227, 1825, 1830

P: 503, 1152, 1153, 1155

C: 516, 788, 819-821, 823, 826, 827, 994, 1125, 1126

#### Aflatoxins

L: 176, 2284, 2288, 3319

P: 42, 43, 292, 294-296, 586, 588, 589, 592-594, 943-945

E: 626

C: 413

#### Agrochemicals (other than pesticides)

L: 830, 1712, 2851

C: 506

#### Air pollution

L: 198, 939, 1179, 1360, 1931, 2241, 3337, 4230(review), 4232

G: 60, 75, 79, 157, 193, 194, 206, 207, 211, 218, 254, 350, 455-457, 459-467, 530, 533, 629, 632, 641, 646, 680, 685, 696, 764, 830-834, 836-838, 875, 877, 953, 962, 1012, 1027, 1054, 1059, 1134, 1173, 1296-1301, 1329, 1447, 1459, 1463, 1525, 1530, 1551, 1556, 1561, 1660, 1678, 1721, 1905-1914, 1985

P: 1122

C: 700, 858, 962

see also individual polluting compounds

#### Alcohols, aliphatic

L: 13, 141, 144, 146, 263, 937, 2246(review), 3281, 3282, 3359, 4201

G: 21, 41, 195-198, 592, 652-658, 671, 1008, 1035, 1037, 1116, 1240, 1339, 1341, 1346, 1439, 1565-1571, 1573

P: 282, 312, 575, 576, 926

C: 12, 38, 366, 417, 573

#### —, cyclic

L: 143, 1148, 1185-1187, 2247, 3268, 3270, 3279, 3280, 3283, 3338, 3423

G: 1036, 1116, 1886

P: 26, 927

C: 12, 38, 652

#### Aldehydes, see Oxo compounds

#### Alkali metals

L: 4240, 4241, 4253, 4256, 4268, 4283

C: 296

#### Alkaline earths

L: 2054, 2055, 2093, 3098, 3099, 4241, 4256, 4283, 4305

G: 560

P: 1198

C: 296

#### Alkaloids

L: 585-603, 1621-1640, 2724-2732, 3780-3805

G: 1702-1706

P: 146-153, 440-450, 745-759, 1090-1095

E: 2539

C: 212-216, 487, 488, 788, 1093, 1094

#### —, reviews and books

P: 746

#### —, theory and general techniques

L: 34, 48, 117, 338, 586, 1632, 1633, 2179, 3801

P: 124, 147-149, 151, 153, 450, 749-751, 758, 819, 863, 865

C: 213, 487, 488, 578

#### —, other

L: 3782, 4033

G: 747, 1143, 1703-1705

P: 444

see also individual alkaloid species

#### Allergens

L: 3383, 3390, 3606, 4202

- E: 879, 1973(review), 1976, 1979, 2009, 2072, 2089, 2095, 2110, 2113, 2496, 2554
- Aluminium, *see* Cations, inorganic, analytical group III
- Amides, imides and related compounds
- L: 1374, 1375, 2213, 2464, 3511-3513
- G: 290, 291, 294, 1129
- C: 662
- Amines
- L: 324-346, 1358-1367, 2446-2464, 3489-3513
- G: 284-295, 731-738, 1130-1136, 1680-1692
- P: 121-126, 407-409, 715-721, 1059-1066
- E: 38, 650
- C: 137-142, 424-428, 713, 714, 988-995
- , reviews and books
- L: 324, 336, 610, 2446, 2454
- P: 121, 123
- E: 38
- C: 138, 149
- , theory
- G: 278, 735
- , general techniques
- L: 19, 48, 94, 114, 328, 335, 338, 949, 1086, 1364, 1366, 1367, 2128, 2152, 2167, 2192, 3182, 3494, 3500, 3501, 3503
- G: 284, 285, 1681
- P: 12, 19, 124, 459, 1060-1062
- C: 38, 139, 144, 155, 361, 424, 425, 651, 943, 988
- , aliphatic amino alcohols and quaternary bases
- L: 117, 346
- G: 1134, 1135, 1692
- P: 1066
- C: 429, 904
- , alkyl
- L: 329, 2447, 3497, 4268
- G: 286, 289, 292, 293, 558, 738, 1136, 1683
- P: 122
- , cyclic, techniques and theory
- L: 326, 1363, 1365, 2854
- G: 28, 1130, 1133, 1684
- E: 1238
- C: 349, 713
- , —, applications
- L: 325-327, 331, 332, 337, 1359, 1361, 1362, 1658, 2231, 2453, 2855, 2857, 3490, 3493, 3499
- G: 287, 288, 731, 732, 734, 736, 737, 1131, 1262, 1680, 1687-1689, 1712, 1713
- P: 715, 716, 802, 805, 1059
- C: 137, 1110, 1111
- , polyamines and their derivatives
- L: 330, 333, 1358, 2452, 3489, 3491, 3495, 3502
- G: 1680, 1682
- P: 717
- C: 989, 991
- Amino acids
- L: 347-380, 1377-1397, 2465-2494, 3514-3548
- G: 96-304, 739-743, 1137-1140, 1693-1700
- P: 127-133, 410-414, 722-728, 1067-1075
- E: 39, 1286, 1287, 1988
- C: 143-155, 429-435, 715-721, 996-1001
- , reviews and books
- L: 89, 215, 2492, 2468, 2471, 2475, 2476, 2483, 2487, 3586
- P: 1072, 1073
- C: 120, 148, 149, 431, 720
- Amino acids, techniques and theory
- L: 114, 115, 350, 351, 353, 358, 360, 361, 365, 366, 368, 377, 1041, 1155, 1156, 1379, 1380, 1382, 1386, 1390, 1392, 1396, 1397, 1452, 2151, 2226, 2228, 2232, 2478, 2480, 2482, 2484, 2485, 2488, 2490, 2493, 3144, 3228, 3515, 3519, 3524, 3528-3530, 3534-3536, 3538-3540
- G: 126
- P: 122, 129, 414, 549, 727, 728, 1067, 1070, 1075
- E: 39, 1286, 1988
- C: 52, 70, 79, 80, 92, 144-146, 150-152, 154, 155, 220-222, 430, 434, 435, 665, 715, 717, 718, 721, 9, 920, 925, 939, 942, 946, 947, 997, 998
- , applications, non-biological
- L: 353-355, 359, 363, 370, 373, 376, 380, 395, 876, 1384, 1388, 1399, 2469, 2486, 3522, 3531, 3535
- G: 298, 300, 740, 1140, 1698, 1699
- P: 127, 128, 410, 724-726, 1068, 1074
- E: 1287
- , —, enzymatic reactions
- L: 351, 1377
- , —, food
- L: 357, 1391, 2473
- G: 739, 1693, 1697
- C: 433, 719
- see also* Food analysis
- , —, microorganisms and plants
- L: 3548
- G: 303
- P: 722, 723, 960
- C: 996
- , —, blood
- L: 347, 349, 350, 364, 372, 374, 378, 379, 1378, 1381, 1385, 1389, 1394, 2466, 2470, 2474, 2479, 2490, 2491, 2492(review), 2494, 3514, 3526, 3527, 4197
- G: 296, 297, 301, 302, 669, 742, 743
- P: 411
- C: 715
- , —, urine
- L: 2465, 2467, 3516, 3547
- G: 1081
- C: 153, 429
- , —, other biological material
- L: 356, 1387, 2317, 2466, 3515, 3520, 3525, 3533, 3546
- G: 297, 299, 304, 1139, 1694-1696, 1943
- P: 732
- E: 1295
- , derivatives, dansyl and dabsyl
- L: 347, 2472, 3532, 3541, 3893
- P: 133, 412
- C: 69, 143, 665, 925
- , —, DNP and TNP
- C: 432
- , —, OPA
- L: 352, 362, 1393, 2466, 2479, 2483(review), 3515, 3526, 3533, 3542, 3547
- C: 999
- , —, PTH, PTC
- L: 1002, 2198, 2481, 3515

- C: 1000
- Amino acids, derivatives, thiohydantoin
- L: 1395
- , —, other
- L: 361, 1395, 2465, 2468(review), 2470, 2477, 2489, 3500, 3523, 3526, 3529, 3537
- G: 300, 743, 1943
- C: 672, 715, 998
- , —, with a modified sulphur function
- G: 741, 1138
- C: 716
- , metal complexes
- L: 962, 3521, 3829, 3831, 3833
- C: 147
- , unusual
- L: 371, 359, 367, 369, 1269, 1379, 1383, 1393, 2452, 2467, 2482, 2489, 2745, 3028, 3510, 3517, 3518, 3522, 3537, 3825
- G: 301, 303, 741, 1137, 1700
- P: 131, 132, 413, 765, 1069, 1071, 1155
- E: 738
- C: 52, 220-223, 429, 430, 1001
- Amino-glycosidic antibiotics (gentamycin, kanamycin, lincomycin, neomycin, streptomycin, paromomycin)
- L: 1735, 2381, 2783, 2796, 2807, 3867, 3873, 3879
- P: 167(review), 169(review), 472
- C: 231, 234(review), 502, 648, 1107
- Ammonia
- L: 984, 2066, 4268
- P: 122
- C: 304
- see also Nitrogen compounds, inorganic
- Amphetamines, see Psychostimulants
- Anabolics
- L: 889, 1885, 3072, 3322
- G: 718-720, 1244, 1651
- Anaesthetics
- L: 593, 595, 596, 804, 818(review), 820, 825, 1622, 1864, 1874, 2724, 2911, 2924, 4044, 4048, 4064, 4082, 4085
- G: 388, 393, 1230, 1233, 1235, 1833, 1835, 1836, 1838
- P: 212, 440, 747
- C: 517, 828, 1144
- Androstane derivatives, techniques and theory
- L: 1322, 3465
- G: 1103
- , —, applications, non-biological
- L: 301, 2418
- G: 714
- P: 116
- , —, biological
- L: 1320, 1323, 1531, 2413, 2415, 2417, 3458
- G: 256-258, 716, 1101, 1102
- P: 683, 686, 687, 1034-1036
- Anions, inorganic
- L: 970-983, 2079-2110, 3102-3114, 4269-4299
- G: 524-527, 1364-1366, 1979, 1980
- P: 259-261, 550, 907, 908
- C: 298-305, 551-557, 868-873, 1173-1178
- , —, techniques
- L: 262, 966, 969, 971-973, 975, 976, 981, 984, 1041, 1076, 1107, 1126, 2033, 2035, 2037(review), 2061, 2069, 2077, 2084-2087, 2088(review), 2093-2095, 2097, 2099, 2101-2103, 2104(review), 2105, 2106, 2164, 3085, 3086(review), 3102, 3104, 3111, 3114, 3134, 3194, 3195, 3205, 3217, 3232, 3349, 3401, 3431, 4206, 4207, 4210, 4227, 4229(review), 4236, 4237, 4259, 4264, 4267, 4270, 4276, 4278-4280, 4282-4284, 4286, 4291-4295, 4301, 4303
- P: 260, 307, 907
- E: 1970, 2558
- C: 41, 293, 299, 300, 303, 305, 321, 431(review), 544, 551, 554-557, 590, 601, 635, 654, 703, 859, 869, 873, 881(review), 913, 1158, 1173-1176, 1178
- see also Halides and other inorganic halogen containing compounds; Nitrogen compounds, inorganic; Phosphorus compounds, inorganic; Sulphur compounds, inorganic
- Anorexic compounds, see Appetite depressants
- Ansamycins (Rifamycins, halomycins, streptovaricin)
- L: 1711
- P: 468
- Anthelmintics
- L: 715, 882, 885, 1383, 1906, 1941, 4126, 4148, 4153
- P: 851, 897
- C: 276, 663
- Anthocyanes
- L: 181, 3963
- P: 197, 814
- C: 414
- Anthracycline antibiotics
- L: 1704
- E: 1103
- C: 1106
- Anthraquinones
- L: 191, 196, 1232, 1293, 1998, 3159, 4125
- P: 48, 238, 488
- C: 113, 333, 688, 851
- Anti-AIDS drugs see Antiviral agents
- Antialcoholic drugs
- L: 3020
- Antianginal drugs
- L: 2880
- Antiarrhythmics
- L: 757, 766, 771, 1844, 1847, 2895, 4018, 4021, 4022, 4037
- G: 1226, 1230
- P: 205, 207
- C: 713, 1123
- Antiarthritics, see Antirheumatics
- Antiartherosclerotics
- L: 1968
- Antiasthmatics
- L: 899, 1879, 2891, 2913, 2939, 3461
- see also Antihistamines; Purine alkaloids
- Antibacterials (antiseptics, desinfectants, etc.)
- L: 676, 826, 831, 833, 840, 844, 845, 863, 878, 1713, 1747(review), 1907, 1908, 1912, 1914, 1917, 1918, 1920, 1922, 1924, 1962, 1975, 2498, 2972, 2973, 3226, 4073, 4093, 4146, 4152, 4155
- G: 506, 661, 1258, 1841, 1846
- P: 235, 470, 472, 603, 840, 841, 867
- C: 661, 723, 802, 826, 827, 835, 837, 840, 1136-1138
- see also Antibiotics; Chemotherapeutics; Sulphonamides

- Antibiotics**  
 L: 656-690, 1697-1758, 2782-2829, 3860-3906  
 P: 164-170, 467-473, 779-789, 1120-1128  
 C: 228-235, 499-503, 801-804, 1105-1108  
 —, reviews and books  
 L: 1747, 2785  
 C: 801  
 —, general techniques  
 L: 114, 661, 1132, 1700, 1715, 1719, 1720, 1731, 1734, 1740, 1748, 2804, 2811, 2815, 2821, 2825  
 P: 467, 469, 472, 473, 784  
 C: 235  
 see also individual antibiotics groups  
 —, other groups  
 L: 680, 685, 687, 688, 690, 1757, 2790, 2794, 2812, 3151, 3884, 3888, 3891, 3892  
 G: 762
- Anticoagulants**  
 L: 2218, 3008, 3053, 4031  
 see also Coumarins
- Anticonvulsants**  
 L: 765, 775, 783, 784, 797, 804, 806, 815(review), 817, 1866, 1869, 1870, 1872, 1880, 1891, 1892, 1901, 2481, 2519, 2911, 2915, 2920, 2934, 2947, 2950, 2955, 2958, 2960, 2964, 4053-4055, 4066, 4076  
 G: 386, 801, 1254, 1840  
 P: 212, 214, 215(review), 558, 830, 839  
 C: 364, 831
- Antidepressants**  
 L: 778, 788, 792, 810, 811, 1875, 1878, 1883, 1896, 2918, 2919, 2926, 2928, 2931, 2933, 2942, 2943, 4023, 4061, 4067, 4076, 4087  
 G: 799, 1223, 1228, 1232, 1882  
 C: 266, 267, 331, 364, 521, 523, 713, 1131
- Antidiabetics, oral**  
 L: 1948, 3019
- Antiemetics**  
 L: 2950, 2999, 4157  
 P: 499
- Antiepileptics, see Anticonvulsants**
- Antifertility agents, see Contraceptives**
- Antifungal antibiotics**  
 L: 1708, 1709, 2786, 2801, 2802, 2820, 3866
- Anti glaucoma drugs**  
 L: 2898
- Antihistamines**  
 L: 872, 2938, 2961, 2965, 3005, 3018, 4045, 4059, 4068  
 G: 1832  
 P: 512  
 C: 824
- Antihypertensives, see Hypotensives and antihypertensives**
- Antimmunodeficiency drugs, see Antiviral agents**
- Antiinflammatory agents, see Antirheumatics**
- Antimalarial drugs**  
 L: 1633, 1950, 2806, 2966, 2997, 4144  
 G: 394  
 P: 748, 753, 759  
 C: 274, 525
- Antimycotics**  
 L: 884, 2970, 2976, 3033, 4024
- P: 842  
 see also Antifungal antibiotics; Fungicides
- Antioxidants and preservatives**  
 L: 1230, 1291, 1361, 2046-2049, 2265, 2386, 2780, 2972, 2995, 3077, 3078, 3153, 3163, 3165, 3299, 3427, 3434, 3659, 4220  
 G: 845, 846, 1205, 1218, 1295, 1327-1329, 1937-1941  
 P: 134, 286, 545, 546, 605, 897, 936, 1196, 1197  
 E: 242  
 C: 287, 421, 535, 844, 845, 860
- Antiparasitic drugs**  
 L: 830, 1712, 1741, 2851, 4063, 4143, 4168  
 see also Anthelmintics; Antimalarial drugs
- Antiparkinsonics**  
 L: 4065  
 C: 522
- Antiprotozoal agents, see Antiparasitic drugs**
- Antipyretics, analgesics**  
 L: 120, 751, 781, 782, 785, 809, 812, 1621, 1830, 1840, 1842, 1892, 1898, 1900, 1902, 2882, 2890, 2914, 2922, 2935, 2936, 2946, 2948, 2951, 2954, 2959, 2962, 3057, 3786, 4008, 4043, 4056, 4071, 4072, 4074, 4075, 4078, 4079, 4084, 4085, 4088, 4089  
 P: 226, 501, 748, 759, 821, 824, 835, 838  
 C: 270, 279, 818, 831
- Antirheumatics (antiinflammatory, antiarthritics)**  
 L: 52, 92, 120, 749-756, 1621, 1829-1843, 2877-2884, 2939, 2948, 2962, 3991, 3995-4015, 4078, 4071  
 G: 382, 797, 1216, 1217, 1219, 1824  
 P: 202-204, 498-501, 821-824, 1069, 1150, 1151, 1186  
 C: 253, 257-261, 513, 514, 814-818, 1121, 1122
- Antisclerotics**  
 L: 1894, 2993
- Antiseptics, see Antibacterials**
- Antitumor antibiotics**  
 L: 1738, 3151, 3889, 3890  
 P: 603
- Antitussives**  
 L: 862, 868, 1969, 1970, 1978, 2917, 3009, 3031, 3786, 3796, 4078  
 G: 805, 819  
 P: 221  
 C: 179, 847
- Antiulcer compounds**  
 L: 2873, 2944, 2963, 4052  
 P: 512  
 C: 262, 824, 1145, 1146  
 see also Antihistamines
- Antiviral agents**  
 L: 836, 891, 892, 894, 1905, 1923, 1957, 1963, 2998, 3002, 3013, 3017, 3021, 3026, 3032, 4092, 4125, 4133, 4142, 4144, 4151, 4158, 4160  
 G: 1842  
 P: 519  
 C: 185, 272, 839, 1139
- Appetite depressants**  
 L: 4134
- Arsenic, see Cations, inorganic, analytical group IIb**
- , organo-compounds  
 L: 633, 951, 1668, 2757, 3829, 3832, 3835, 3836  
 G: 1163-1165, 1403, 1736, 1738

E: 724

Asphalts, *see* Coal, tar and bitumens, hydrocarbons in

Aza heterocyclics

L: 605

Azides

L: 4271

G: 1365

P: 409, 720

Azo and related compounds

G: 295

P: 802

**B**Bacteria, *see* Cells, viruses and microorganisms—, metabolites and taxonomy, *see* Cells, viruses and microorganisms, metabolites and taxonomical studiesBarbiturates, *see* Anticonvulsants, Anaesthetics, HypnoticsBarium, *see* Alkaline earthsBee venom, *see* Venoms, otherBeryllium, *see* Cations, inorganic, analytical group III

Bile acids and alcohols

L: 89(review), 308, 1336, 1337, 3158, 4135

G: 266, 723, 1108

P: 559, 695

Bile pigments

L: 1644

Biopolymers and their constituents, reviews

G: 1350

*see also* DNA; Enzymes; Proteins; RNABiotin, *see* Vitamins, biotin group

Biphenyl and derivatives

L: 3233, 3276

G: 175, 177, 179, 181, 189, 500, 551, 636, 637, 642, 644, 645, 647, 648, 650, 1004, 1023, 1126, 1178, 1460, 1481, 1516, 1524, 1547, 1548, 1550, 1551, 1553-1555, 1933, 1934

C: 504

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

Bitter substances

L: 321, 1348, 1349, 3484, 3485

G: 856

P: 402, 403, 712, 713, 1055

C: 136, 986

 $\alpha$ -Blocking agents, *see* Adrenergic and adrenergic blocking agents $\beta$ -Blocking agents, *see* Adrenergic and adrenergic blocking agents

Boranes and derivatives of boric acid

L: 352, 3750

P: 1155

C: 710

Boron compounds, inorganic

L: 2107

Bronchodilators

L: 899, 1861, 2891, 3226, 4019, 4073

G: 317

C: 826, 827

*see also* Antiasthmatics**C**Cadmium, *see* Cations, inorganic, analytical group I and IIaCaesium, *see* Alkali metalsCalciferols, *see* Vitamins, D groupCalcium, *see* Alkaline earths

Calcium antagonists

L: 1864, 2905, 4038

C: 1124

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

Capsaicin

P: 529

Carbamates, *see* Pesticides, carbamates

Carbazole alkaloids

L: 1626

Carbohydrates (including glycoproteins)

L: 201-254, 1242-1285, 2301-2347, 3341-3397

G: 220-225, 688, 1060-1063, 1601-1607

P: 49-63, 306-327, 604-630, 950-965

E: 9-25, 627-642, 1245-1273, 1971-1983

C: 114-129, 416-420, 689-698, 964-976

—, reviews and books

L: 215, 935, 1256, 2276, 2311, 2338

E: 9, 10, 22, 627, 1971

C: 118-120, 124, 628

—, general theory and techniques

L: 202, 206, 209, 214, 219, 222, 225, 937, 1042, 1120, 1243, 1245, 1246, 1253, 1254, 2203, 2207, 2216, 2346, 2351, 3192, 3243, 3343-3345, 3349, 3351, 3353, 3360, 3361, 3363, 3367, 3423, 4201

G: 1026

P: 49, 306, 956, 959, 976

C: 116, 121, 125, 126, 146, 418, 691, 771, 892, 966

—, applications, non-biological

L: 144, 205, 220, 223, 1249, 1259, 1263, 2303, 2304, 3347, 3348, 3350, 3359

G: 562, 689, 912, 1061, 1085, 1408, 1605, 1607

P: 51, 56, 58, 317, 320, 458, 543, 604, 608, 620

E: 23, 318

C: 114, 287, 689

—, —, food products

L: 201, 3345, 3351, 3355, 3356

G: 826, 1069, 1602-1604, 1606

P: 962

C: 122, 690

—, —, microorganisms

L: 207, 1248, 2322, 2325, 3341, 3359

P: 53-55, 309, 310, 318, 604, 615, 951, 952, 954, 960

—, —, plants

L: 160, 203, 256, 2301, 3366, 3386

G: 221, 223, 1063

P: 50, 57, 75, 314-316, 319, 605, 609, 618, 950, 952, 953, 957

C: 115

—, —, animal material

L: 2304, 2309, 2313, 2317, 2667, 3342, 3352, 3354, 3377

G: 222, 224, 227, 1061, 1850

P: 52, 608, 613, 619, 955, 958

C: 965

## Carbohydrates, derivatives, acids and lactones

L: 210, 2314, 2315, 3281, 3346, 3377

G: 225

## —, —, alcohols

L: 207, 217, 1266, 2309

C: 417, 964

## —, —, amino sugars

L: 1257, 1262, 1266, 2303, 2304, 2312, 2325, 3342, 3360, 3366, 3377, 3436

G: 688

P: 306

C: 691

see also Glycosaminoglycans

## —, —, phosphates, see Phosphorus compounds, organic

## —, —, sulphur containing

C: 967

## —, —, other

L: 2312

G: 1060

## Carbon

G: 40, 535-537, 1989

## — oxides

G: 44, 528, 530, 532, 1257, 1368, 1955, 1980-1982

## Carbonyls, see Oxo compounds

## Carboxylic acids

L: 255-274, 1286-1307, 2348-2387, 3398-3434

G: 226-247, 689-702, 1064-1091, 1608-1633

P: 64-76, 328-344, 631-647, 966-976

C: 130-133, 421-423, 699-705, 977-984

## —, reviews and books

L: 215, 2360, 2454

P: 638, 639, 973

C: 422

## —, general techniques and theory

L: 19, 69, 221, 262, 263, 266, 272, 619, 937, 1253, 1289, 1292, 1294, 1304, 1655, 2026, 2047, 2092, 2099, 2154, 2227, 2351, 2354, 2365, 2371, 2372, 2375, 2378, 2756, 2878, 3072, 3144, 3205, 3246, 3267, 3399-3401, 3407, 3409, 3411, 3420, 3421, 3423, 3424, 3429, 3432, 4200, 4201, 4206

G: 702, 1609, 1610

P: 66-68, 76, 304, 332, 334-336, 398, 485, 523, 576, 631, 640, 644, 647, 703, 813, 886, 966, 972, 1007

C: 130, 131, 139, 287, 293, 346, 348, 349, 428, 647, 657, 659, 702, 703, 710, 771, 909, 911, 928, 977, 979, 982-984

## —, higher fatty acids

L: 265, 268-270, 1288, 1533, 1544, 2154, 2348, 2350, 2353, 2358, 2359, 2361, 2363, 2367, 2377, 2379, 2382, 3281, 3398, 3404, 3405, 3410, 3415

P: 64, 65, 69-71, 73-75, 81, 328, 331, 339, 342, 344, 346, 350, 363, 370, 385, 633, 638(review), 641-643, 652, 654, 679, 967, 969-971, 973(review), 980

C: 133, 704, 983

## —, —, simple esters

L: 1330, 2352

P: 343, 636, 646, 974

## —, lower fatty acids

L: 1296

G: 1064, 1087, 1088

C: 700, 983

## Carboxylic acids, non-volatile, techniques

L: 3425

G: 242

## —, —, applications

L: 141, 260, 264, 267, 273, 1288, 1290, 1296-1298, 1302, 1303, 1305, 1533, 1544, 2317, 2349, 2356, 2362, 2369, 2370, 2374, 2376, 2380, 2384, 3402, 3403, 3406, 3408, 3412-3414, 3416, 3419, 3431, 3433

G: 696

C: 131, 132, 665, 701, 980, 1001

## —, —, lactones

L: 2368

G: 427, 442, 823, 1591

P: 330

## —, oxo acids

L: 1533

G: 1072

## —, cyclic acids, techniques and theory

L: 151, 1203, 1286, 1287, 1291, 1299, 2257, 2381, 2383, 2385, 3193, 3338

G: 226, 1076, 1083, 1617, 1639

P: 568, 635, 645

C: 349, 423, 581, 648, 652

## —, —, applications, non-biological

L: 261, 274, 1293, 1301, 1307, 1658, 2364, 2366, 3296, 3333, 3422, 3428, 3433, 3434, 3845

G: 21, 228, 229, 232, 234, 240, 241, 245, 246, 560, 694, 697, 699, 700, 702, 863, 1064, 1068, 1072-1074, 1079, 1080, 1083, 1421, 1613, 1615, 1629, 1633, 1755

P: 968, 976

C: 978, 981

## —, —, —, microorganisms

L: 256, 933, 2373

G: 238, 1335, 1616, 1625

P: 975

## —, —, —, plants

L: 147, 2357, 2387, 3427

G: 233, 243, 244, 691, 1086, 1089, 1608, 1614, 1621, 1626, 1627, 1630

P: 72, 330, 886, 1197

C: 421, 699, 705, 853

## —, —, —, animal material

L: 258, 2355, 2366, 2386, 2456, 2461, 3811

G: 196, 235, 237, 239, 247, 431, 653, 690, 693, 698, 820, 1066, 1067, 1075, 1081, 1090, 1091, 1269, 1611, 1619, 1632, 1638, 1639, 1878, 1879

## —, —, —, food products

L: 255, 257, 259, 1295, 2261, 2373, 3417

G: 230, 231, 695, 701, 708, 1065, 1071, 1077, 1078, 1082, 1084, 1099, 1609, 1612, 1617, 1618, 1620, 1628, 1631

see also Food analysis

## Cardiac depressants

L: 764

G: 1046

C: 713

## Cardiac glycosides, techniques

L: 309

P: 118

C: 355

- Cardiac glycosides, applications, non-biological  
L: 310, 1338  
—, —, biological  
L: 1340
- Cardiotonics (cardiostimulants)  
L: 763, 2895  
P: 208  
C: 515
- Catechins and tannins, *see* Tannins
- Catecholamines, techniques  
L: 338, 1368, 1369, 2166, 3504  
G: 733, 1132  
P: 124, 407, 408  
C: 142  
—, applications  
L: 74, 339-343, 1041, 1370, 1371, 2152, 2455, 2457-2460, 3497, 3505, 3506, 3509, 3811, 4062  
P: 125, 126, 718, 719, 897, 1063  
C: 139-142, 144, 426-428, 509, 834, 944, 992-994  
—, metabolites  
L: 2456, 2461, 3811
- Cations, inorganic  
L: 951-969, 2053-2078, 3083-3101, 4231-4268  
P: 254-258, 547-549, 902-906, 1198-1203  
E: 1956, 1957, 2558  
C: 293-297, 544-550, 864-867, 1163-1172  
—, —, reviews and books  
L: 960, 961, 2037, 3086, 3096, 4229, 4252  
P: 744  
C: 431, 549, 574, 866, 1170  
—, —, techniques  
L: 61, 952-954, 957, 964, 966-969, 1126, 2041, 2053, 2057, 2061, 2068, 2069, 2076, 2077, 2087, 2097, 2102, 2164, 2223, 3083, 3085, 3088, 3091, 3092, 3094, 3100, 3134, 3186, 3205, 3232, 3349, 3652, 4206, 4210, 4227, 4232, 4234, 4236-4238, 4242-4245, 4247, 4249, 4254, 4255, 4260, 4261, 4262, 4264, 4267, 4276, 4279, 4282, 4293, 4294  
P: 247, 254, 256, 257, 260, 547-549, 904, 1200, 1201  
E: 1957, 1970, 2558  
C: 48, 293, 296, 297, 303, 305, 321, 544-546, 550, 556, 864, 865, 867, 1103, 1163-1166, 1168, 1169, 1172  
—, —, analytical group I and IIa (Ag, Bi, Cd, Cu, Hg, Pb, Pd, Tl)  
L: 636, 953, 2067, 2073, 2074, 4231, 4248, 4258  
P: 255, 902, 903  
C: 548
- Cations, inorganic, analytical group IIb (As, Mo, Sb, Se, Sn, Tc, Te, V, W)  
L: 31, 951, 956, 958, 962, 965, 2058, 2059, 2064, 2070, 2757, 3087, 3090, 3093, 3095, 3097, 4235, 4246, 4250, 4251, 4257, 4259, 4266, 4303  
P: 902, 905, 908, 1199  
C: 294  
—, —, analytical group III (Al, Be, Co, Cr, Fe, Ga, Mn, Nb, Ni, Ta, Th, Ti, Zn, Zr)  
L: 955, 2062, 2063, 2067, 2073, 2074, 2078, 3084, 3089, 3098, 3099, 3101, 4248, 4250, 4263, 4265  
P: 255, 258, 902, 906, 1203  
E: 1956  
C: 548, 1171  
*see also* Actinides and uranium; Alkali metals; Alkaline earths;
- Platinum metals and gold; Rare earths
- Cells, viruses and microorganisms  
L: 1162, 1479, 2052, 3081, 3082  
G: 1977  
E: 613, 614, 1220, 2555, 2556  
C: 289, 290, 292, 389, 539, 540, 542, 1160(review)  
—, metabolites and taxonomical studies  
G: 236, 522, 523, 868-870, 1362, 1363, 1978  
C: 288
- Cellulose acetate *see* Polysaccharides and their constituents
- Cephalosporins  
L: 1697, 1701, 1702, 1732, 1739, 1745, 2789, 3894, 3900, 3901, 3903  
G: 484  
P: 783, 787  
C: 233
- Ceramides, *see* Sphingolipids
- Cerebrosides, *see* Sphingolipids
- Chalcones  
P: 603
- Chelates, *see* Coordination compounds
- Chemotherapeutics  
L: 2973  
*see also* Sulphonamides
- Chloramphenicol and related compounds  
L: 843, 1750  
P: 781, 782, 1122
- Chloroplast pigments  
L: 723, 1795, 1798, 1799, 2776, 2860, 3961  
P: 1140
- Choline and derivatives  
L: 334(review), 1614, 3492  
G: 1650
- Cholinergic and cholinergic blocking substances  
L: 813, 1628, 1634, 1887, 1903  
P: 512  
C: 517
- Chromium, *see* Cations, inorganic, analytical group III
- Chromoproteins and metalloproteins  
L: 463-471, 493, 637, 934(review), 1401, 1434, 1486-1492, 1513, 1541, 2063, 2076, 2566, 2575, 2577(review), 2578-2587, 2634, 3211, 3385, 3633, 3641, 3642  
E: 235-241, 663, 799-808, 884, 1082, 1117, 1214, 1215, 1252, 1253(review), 1503, 1504, 1505(review), 1506-1508, 1798, 2156-2164  
C: 179, 455, 603, 754, 1035  
—, structural studies  
L: 420, 469  
G: 730  
E: 48, 806
- Cinchona alkaloids  
P: 1095
- Clinico-chemical applications (endogenous compounds in body fluids)  
L: 267, 329, 342, 350, 364, 465, 487, 555, 570, 606, 1240, 1340, 1381, 1515, 1545, 1563, 1568, 1612, 2298, 2312, 2407, 2456, 2494, 2505, 2569, 2573, 2575, 2580, 2685, 2714, 2721, 2722, 3080, 3352, 3369, 3392, 3466, 3506, 3525, 3547, 3563, 3636, 3637, 3746, 4196, 4197  
G: 430  
P: 84, 655, 691

- E: 27, 37, 45, 194, 278, 309, 357, 577, 605-611, 646, 912, 924, 1182, 1183, 1201, 1214, 1278, 1281, 1283, 1463, 1466, 1476, 1478, 1479, 1588, 1657, 1717, 1884, 1887, 1890, 1932, 1935, 1940, 1951-1954, 1977, 1989, 2105, 2132, 2159, 2214, 2356, 2397, 2451, 2480, 2483, 2486, 2533, 2547-2553
- C: 179, 187, 429, 452, 534, 715, 748, 768, 769, 854, 965, 972, 1011, 1030, 1039, 1087, 1090, 1155, 1156
- see also individual categories of endogenous compounds
- Clinico-chemical applications (endogenous compounds in body fluids), reviews and books
- L: 934, 2025, 2577
- G: 1372
- E: 604, 1253
- C: 533
- , profiling body fluids
- G: 168, 200, 220, 239, 255, 257, 301, 431, 433, 434, 447, 527, 644, 678, 690, 712, 713, 735, 744, 783, 820, 848, 1005, 1056, 1066, 1075, 1262-1264, 1266-1271, 1439, 1500, 1522, 1528, 1567, 1595, 1632, 1636, 1875-1888, 1986
- Coal analysis
- G: 33, 494, 910, 924, 1330, 1356, 1425, 1523, 1952, 1958, 1964
- P: 24, 281
- Coal tar and bitumens, hydrocarbons in
- G: 866, 1322, 1959, 1972, 1976
- P: 280, 572-574, 924
- Cobalamins, see Vitamins, B group
- Cobalt, see Cations, inorganic, analytical group III
- Cocciostatics
- L: 2975
- Composites
- G: 1414
- Contraceptives
- L: 2424
- Coordination compounds
- L: 637, 638, 1671-1673, 2733, 2763-2765, 3194, 3246, 3837, 4234, 4249
- P: 160, 161, 307, 464, 551, 772-776, 823, 1107, 1109
- E: 1208, 1209, 2541
- C: 225, 226, 464, 496, 497, 794, 795, 1103, 1104, 1135, 1171
- , reviews
- L: 639
- P: 510, 567
- C: 1102
- see also Amino acids, metal complexes
- Copper, see Cations, inorganic, analytical group IIIa
- Coronar vasodilatans, see Vasodilatans
- Cosmetics
- L: 1971, 2855, 2972, 4127
- G: 281, 1049, 1741, 1951, 1968
- P: 225, 533(review)
- C: 845
- Coumarins
- L: 169, 180, 182, 1228, 3324
- G: 202, 1049
- P: 229
- Crude oil and petroleum analysis
- L: 136, 1183, 1184, 3269
- G: 128, 146, 156, 160, 191, 192, 194, 495, 497, 505, 508-510, 516, 564, 631, 639, 829, 853, 854, 858, 859, 864, 917, 925, 991, 1006, 1010, 1153, 1290, 1317, 1322, 1331, 1332, 1339, 1341, 1345, 1347, 1353, 1354, 1357, 1361, 1413, 1457, 1537, 1564, 1942, 1944, 1949, 1956, 1961, 1962, 1967
- P: 22, 23, 275, 571, 921, 925
- see also Hydrocarbons, complex mixtures
- Cyanates, see Halides and other inorganic halogen compounds
- Cyanides, see Halides and other inorganic halogen compounds
- Cytokinins
- G: 1147
- Cytostatics
- L: 564, 846-861, 921, 1037, 1132, 1925, 1926(review), 1927(review), 1928-1937, 2024, 2249, 2250, 2302, 2521, 2977, 2978, 2979(review), 2980-2992, 3759, 4097-4119
- G: 395-397, 399, 1237, 1238
- P: 27, 216-220, 509, 510(review), 511, 843, 844, 1159-1161, 1183
- E: 453, 540, 1066, 1948, 2544
- C: 273, 460, 503, 841-843, 1106, 1133-1135, 1151, 1152
- see also Antitumor antibiotics; Purines, analogues of purines, pyrimidines, nucleotides, nucleosides

## D

Desinficiens, see Antibacterials

Detergents, see Surfactants, emulsifiers and detergents

Diagnostics

L: 1269, 3016

P: 511

C: 127, 275

Dioxans and dioxins

L: 3277, 3916, 4208

G: 205-208, 644, 673-676, 1053, 1587, 1588

P: 300

Disulphides

L: 1394

Diuretics

L: 873, 890, 1939, 1942, 1943, 1954, 3022, 3034, 4039, 4122, 4154

G: 643, 1826

P: 502, 1164, 1167

DNA, reviews

L: 3768

E: 451, 473, 1075, 1222, 1759, 1776, 2353, 2364, 2379, 2382, 2388, 2416

C: 562, 738, 773-775, 903, 910, 1049, 1051, 1052, 1057, 1059-1062, 1065, 1070, 1086

—, techniques

L: 9, 575-577, 580-582, 1616, 1620, 2126, 2716, 3592, 3765-3767, 3769, 3770

E: 40, 452, 453, 458, 461, 463, 469, 475, 476, 484, 485, 497, 502, 523, 525, 567, 623, 626, 1040, 1042, 1051, 1055, 1059, 1060, 1063, 1068, 1070, 1074, 1078, 1079, 1081, 1225, 1336, 1381, 1580, 1669, 1670, 1761, 1762, 1765, 1770, 1774, 1775, 1777, 1778, 1783-1785, 1790, 1791, 1964, 2154, 2352, 2359, 2363, 2365, 2376, 2383, 2386, 2387, 2417, 2447, 2460

C: 25, 192-194, 335, 383, 397, 403, 465-471, 474, 570, 608, 611, 619, 624, 776, 1048, 1050, 1053-1056, 1058, 1063, 1066, 1067, 1071, 1079



## DNA, applications, non-biological

- L: 579  
 E: 436, 454, 456, 457, 459, 465, 466, 468, 470-472, 478, 479, 481, 482, 486, 487, 489-491, 493, 494, 498, 500, 501, 503, 528, 543, 563, 580, 593, 595, 793, 862, 1030, 1044, 1045, 1048-1050, 1052-1054, 1057, 1059, 1065, 1066, 1069, 1071, 1072, 1077, 1082-1084, 1104, 1116, 1668, 1744, 1767-1769, 1772, 1779, 1781, 1787, 1788, 1792, 1793, 1824, 1855, 1918, 1925, 2041, 2045, 2174, 2241, 2295, 2328, 2339, 2349-2351, 2361, 2362, 2368-2370, 2375, 2377, 2378, 2385, 2392, 2393, 2398, 2399, 2421, 2434, 2435, 2485, 2537  
 C: 291, 472, 473  
 —, —, microorganisms  
 L: 2715  
 E: 160, 455, 464, 483, 488, 492, 493, 1046, 1061, 1062, 1067, 1086, 1118, 1190, 1731, 1760, 1763, 1764, 1771, 1778, 1780, 1782, 1786, 2327, 2354, 2355, 2357, 2366, 2367, 2372-2374, 2380, 2389, 2390, 2394-2396  
 —, —, plants  
 E: 485, 495, 749, 766, 1043, 1056, 2383  
 —, —, animal material  
 L: 2714  
 E: 315, 436, 457, 460, 462, 465, 467, 470, 474, 477, 478, 480, 496, 499, 606, 1022, 1039, 1041, 1047, 1057, 1064, 1073, 1074, 1076, 1080, 1766, 1773, 1782, 1793, 2183, 2356, 2358, 2360, 2371, 2375, 2381, 2384, 2385, 2391, 2397, 2435, 2457  
 C: 1064  
 —, chemically modified  
 L: 578, 3765, 3770  
 G: 166  
 P: 144, 439  
 C: 464, 586  
 —, structural studies  
 L: 562, 583, 1596, 1617, 1618, 2718-2720, 3747, 3767, 3768(review), 3769, 3773, 3774(review), 3775  
 G: 38, 305  
 P: 145, 433, 438, 439, 463, 737  
 E: 52, 99, 133, 136, 143, 266, 306, 362, 398, 406, 409, 454, 457, 462, 468, 471, 494, 496, 516-544, 545(review), 546-572, 580, 584(review), 595, 615(review), 621, 643, 661, 721, 807, 831, 876, 964, 968, 971, 977, 978, 983, 993, 1030, 1035, 1044, 1052-1054, 1059, 1062, 1068, 1072, 1074, 1091, 1094-1128, 1129(review), 1130-1172, 1182, 1201, 1296, 1393, 1404, 1430, 1564, 1565, 1578, 1672, 1677, 1692, 1694, 1714, 1750, 1762, 1763, 1765, 1769, 1778, 1782, 1807-1812, 1813(review), 1814(review), 1815-1832, 1833(review), 1834-1843, 1844(review), 1845-1849, 1850(review), 1851-1872, 1883, 1905, 1909, 1921, 1953, 2045, 2171, 2242, 2268, 2300, 2307, 2309, 2329, 2336, 2369, 2373, 2376, 2382(review), 2387, 2390, 2404, 2413-2415, 2416(review), 2417-2444, 2445(review), 2446-2471, 2477, 2494, 2515, 2519, 2534  
 C: 195, 196(review), 197-205, 469, 475(review), 476-482, 485, 486, 577, 605, 610, 611, 619, 621-623, 777-781, 782(review), 783, 1040(review), 1043, 1044(review), 1052(review), 1055, 1056, 1058, 1060(review), 1062(review), 1063, 1067, 1068, 1069, 1070(review), 1071-1073, 1074(review), 1075, 1076(review), 1077(review), 1078, 1079, 1080(review), 1081, 1085, 1086(review), 1091  
 —, complex mixtures of DNA and RNA and DNA-RNA hybrids  
 E: 1078, 1193, 1200, 1691, 1753, 1898, 1904, 1914, 1919, 1922

- Drug monitoring and pharmacokinetics studies, reviews and books  
 G: 288, 388, 400, 401, 804, 1145, 1241, 1242, 1247, 1295, 1709, 1848  
 see also individual categories of drugs  
 Drugs of abuse (general papers)  
 L: 1627, 2957  
 G: 122, 391, 405, 409-413, 415, 418, 422, 423, 746, 802, 808-810, 814, 817, 818, 1245, 1819, 1856, 1862, 1865  
 C: 1148  
 see also individual categories of drugs  
 —, other  
 L: 866, 893, 894, 1146, 1938, 1951, 1967, 2994, 2996, 3003(review), 3007, 3011, 3015, 3023, 3029, 3035, 3042, 4120, 4129, 4145, 4150  
 G: 1142, 1243, 1246, 1256, 1868  
 P: 222, 538  
 —, synthetic, see Pharmaceutical applications and individual types of drugs  
 Dyes, natural, see Pigments, natural  
 Dyes synthetic, reviews  
 L: 2853  
 —, theory and techniques  
 L: 326, 328, 716, 2854, 2855, 3947-3949  
 P: 804, 808  
 —, applications  
 L: 326, 328, 1793, 1794, 2179, 2852, 2857, 3952  
 G: 172, 734, 1133, 1691, 1971  
 P: 189-193, 482-485, 802, 806, 807, 819, 915, 931, 1137-1139  
 see also Food dyes; Textile dyes (including bleaching agents)

## E

- Ecdysones and other insect hormones of steroid nature  
 L: 2429, 2430  
 P: 696-698  
 Endorphins, enkephalins and their analogues  
 G: 424, 1248  
 Environmental analysis (general papers)  
 L: 102, 632, 700, 973, 2028, 2830, 4203, 4204, 4302  
 G: 1550  
 C: 106, 296, 297, 1157  
 —, reviews and books  
 L: 2029  
 G: 1293, 1294, 1902-1904  
 P: 1129  
 C: 537  
 Enzymes (including activity measurement)  
 L: 499-561, 1528-1594, 2625-2695, 3673-3743  
 P: 138-140, 427, 736, 1084  
 E: 303-405, 881-960, 1605-1671, 2223-2297  
 C: 183, 184, 456-459, 758-763, 1037-1039  
 —, general techniques and reviews  
 L: 97(review), 1413, 3260  
 E: 1998, 2223(review)  
 C: 1037  
 —, activity measurement  
 L: 523, 530, 1551, 2219, 2374, 3350  
 G: 258, 672

- P: 427  
 E: 335, 404, 1192  
 C: 1037
- Enzymes, complex mixtures and incompletely defined enzymes  
 L: 3742, 3743  
 E: 401-404, 434, 959, 1010  
*see also* individual categories of enzymes
- Ephedra alkaloids  
 L: 591, 1623, 1639, 1834, 3791-3793, 3797, 3798, 3804  
 P: 445  
 C: 265, 788
- Epoxides  
 L: 2353  
 G: 211  
 C: 861
- Epoxy resins  
 L: 1805
- Ergot alkaloids  
 L: 603, 1625, 1636  
 P: 152
- Essential oils  
 L: 1347(review), 2441  
 G: 269-272, 274-277, 279, 724-728, 1110, 1115-1124, 1126, 1654, 1661, 1662, 1664-1671, 1673-1676  
 P: 400(review), 401, 710, 711, 1020, 1054  
 C: 712
- Ethers, aliphatic ethers  
 L: 197, 2352  
 G: 209-212, 559, 687, 1054, 1339, 1600
- , cyclic ethers  
 L: 1137, 1229, 1239, 1241, 2252, 2299  
 G: 1590  
 P: 568
- Epectorants  
 L: 4156  
 P: 512
- Explosives  
 L: 1131, 1352, 1357, 2050, 2442  
 G: 961, 1127, 1677, 1860  
 P: 1056, 1058(review)  
 C: 27, 987
- F**
- Ferrocenes  
 P: 776, 1106, 1108
- Flame retardants  
 G: 648, 860, 1815
- Flavins, *see* Vitamins, B and other flavins
- Flavonoids and  $\gamma$ -pyrone derivatives  
 L: 164-173, 181, 1051(review), 1120, 1188, 1203-1214, 1227, 1864, 2261, 2263, 2265-2275, 2276(review), 2277-2282, 2635, 3284, 3301-3317, 4181, 4183, 4193  
 G: 203, 1033, 1050  
 P: 30-41, 157, 288-290, 579-585, 930-940, 1186  
 C: 107-110, 412, 685, 686, 853, 986
- Flavours, volatiles, odours, *see* Organoleptics
- Fluorinated antibiotics  
 L: 667, 674, 676, 1975, 2784, 2803, 2813, 2826, 3874, 3880, 4093  
 C: 802, 840
- Folic acid and other pteridine derivatives  
 L: 2767, 2772, 2775, 3196, 3840  
 P: 465
- Food analysis  
 L: 131, 132, 196, 279, 345, 407, 624, 641, 646, 664, 719, 936-938, 984, 1213, 1286, 1295, 1391, 1412, 1459, 1680, 1688, 1696, 1702, 1710, 1718, 1760, 1786, 1797, 1802, 1913, 1919, 2026, 2049, 2086, 2122, 2254, 2260, 2319, 2749, 2792, 2822, 2891, 2967, 3293, 3299, 3344, 3355, 3356, 3403, 3417, 3445, 3446, 3606, 3614, 3652, 3785, 3838, 3839, 3860, 3876, 3912, 3943, 3964, 4198, 4200, 4201, 4231, 4269, 4286  
 G: 176, 195, 198, 213-216, 248, 260-262, 286, 311, 312, 330, 337-339, 342, 347, 358, 361, 365, 432, 435-445, 449, 452, 512, 655, 706, 721, 756, 765, 768, 777, 779, 780, 786-788, 795, 821, 824, 825, 1013, 1015, 1023, 1046, 1078, 1095, 1151, 1171, 1175, 1177, 1184, 1186, 1187, 1189, 1265, 1272-1279, 1281-1283, 1285-1288, 1502, 1504, 1524, 1533, 1569, 1570, 1574, 1582, 1585, 1586, 1596, 1604, 1606, 1609, 1612, 1621, 1641, 1642, 1647, 1649, 1655, 1658, 1672, 1680, 1693, 1703, 1712, 1716, 1717, 1720, 1723, 1725, 1730, 1734, 1739, 1745, 1746, 1749, 1750, 1752, 1754, 1756, 1771, 1775, 1781, 1786, 1787, 1789, 1790, 1795, 1797, 1843, 1889-1896, 1898-1900, 1938, 1954  
 P: 277, 480, 1136, 1194  
 E: 57, 612, 653, 759, 780, 1955, 1979, 2009, 2067, 2088, 2089, 2103, 2558  
 C: 535, 544, 657, 679, 680, 719, 755, 845
- , reviews  
 L: 215, 605, 935, 990, 2246, 2853, 4199, 4202  
 G: 3  
 E: 1973, 2554  
 C: 120, 284, 855-857  
*see also* Antioxidants and preservatives; Medicated feeds; analysis of individual food constituents
- Food dyes  
 L: 2856, 3956  
 P: 481, 803, 1136, 1138  
 C: 244
- Free radicals  
 G: 1513
- Fullerenes  
 L: 1174, 1176-1178, 2760, 3274  
 G: 595, 596
- Fumigants  
 G: 359, 1798
- Fungicides  
 L: 667, 711-714, 1786, 1791, 2803, 2826, 2844, 2976, 3943  
 G: 336, 360-365, 788, 1795-1797, 1799  
 P: 46, 185, 186, 479, 480, 800, 801, 1134  
 C: 242, 243, 808
- Furans  
 L: 185, 2293, 2368, 3874  
 G: 1051, 1598

## Furocoumarins

- L: 2290, 3149  
P: 299

## G

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

Gangliosides, *see* Sphingolipids

## Gases

- G: 61, 68, 528, 531, 532, 587, 602, 930, 944, 977, 1019, 1296, 1368, 1370, 1887, 1982-1984

## Glucosinolates

- L: 623, 628  
G: 1714

## Glycerides, simple

- L: 1292  
G: 250, 252, 1094-1097, 1567, 1643  
P: 657

*see also* Carboxylic acids, higher fatty acids, simple esters

## Glycolipids

- L: 275, 3436, 3447  
P: 80, 102, 322, 326, 382, 987  
*see also* Phospholipids; Sphingolipids

## Glycols and polyols

- L: 142, 2248  
G: 511, 1033, 1240  
P: 25

## Glycoproteins and glycopeptides, techniques

- L: 243(review), 246, 544, 1267, 1276(review), 1279, 1281, 1282, 2209(review), 2337, 2338(review), 2339, 2342, 2343(review), 2344, 2346, 3391  
E: 16, 22(review), 80, 265, 640, 642(review), 858, 1253(review), 1254-1256, 1262, 1266, 1268(review), 1269-1271, 1329(review), 2218  
C: 129(review), 420, 756

—, applications, non-biological (incl. gene manipulation)

- L: 247, 249, 251, 254, 3390  
E: 13, 15, 17, 19, 21, 24, 25, 635, 639, 641, 1170, 1259, 1261, 1263, 1265, 1267, 1271, 1974, 1975, 1978, 1982  
C: 975

—, —, microorganisms

- L: 2674, 3661  
P: 964, 965, 1103  
E: 19, 1980, 1981

—, —, plants

- L: 252, 253  
E: 1973, 1979, 2083  
C: 976

*see also* Lectins

—, —, animal material

- L: 213, 244, 245, 250, 1070, 1275, 1277, 1278, 1280, 1284, 1285, 2335, 2572, 2578, 3383-3385, 3387, 3392, 3393, 3396, 3397, 3629, 3668  
P: 327  
E: 14, 15, 18, 20, 21, 23, 634, 636, 637, 660, 1214, 1251, 1252, 1253(review), 1258, 1260, 1273, 1469, 1975, 1977, 2532  
C: 697

## Glycoproteins and glycopeptides, structure investigation

- L: 209, 212, 224, 1256(review), 2336, 2338(review), 2342, 3388, 3389, 3394, 3395  
P: 63  
E: 12  
C: 696

## Glycosaminoglycans (including proteoglycans of connective tissue)

- L: 230, 233(review), 236, 239, 241, 1265, 1266, 1272, 1273, 2323, 2327-2330, 2334, 2341, 2345, 2667, 3373, 3375, 3377, 3378, 3380, 3381

P: 364

E: 630

C: 128, 697, 698, 972-974

*see also* Glycoproteins and glycopeptides, applications, animal material

—, structural studies

- L: 218, 1258, 1261, 2303, 2331, 3369, 3370, 3379, 3386  
E: 1245, 1249  
C: 967, 968

*see also* Carbohydrates, derivatives, amino sugars

## Growth factors

- L: 2610, 4131  
G: 235, 630, 1066, 1146, 1147, 1694, 1708  
E: 41, 43, 903, 1294, 1296, 1299, 1364, 1522, 1990, 1993  
*see also* Pituitary hormones and proteins; Gibberelins

Gold, *see* Platinum metals and gold

## Guanidine and guanidine derivatives

- L: 344(review), 345, 1372, 2462  
C: 714

## H

## Haemostatics

- L: 4025  
P: 223

## Halides and other inorganic halogen-containing compounds (including cyanides and cyanates)

- L: 970, 977-979, 1305, 2079, 2081-2083, 2100, 3108, 3109, 4269, 4273, 4281, 4289, 4295, 4299  
G: 524, 534, 584, 589, 1355, 1365, 1367, 1816, 1908, 1975, 1979  
C: 552, 553, 868, 872

## Hallucinogens (including cannabis constituents)

- L: 1868, 3037  
G: 415, 818, 1857, 1859

Halogen derivatives of hydrocarbons, *see* Hydrocarbons, halogen derivatives

## Halogens

- L: 955, 982, 983, 2096, 2108, 3105, 3113, 4274, 4277, 4296, 4297  
G: 1987

## Herbicides, general techniques

- L: 697, 705, 706(review), 708, 709, 1777, 1781-1783, 2833, 2836, 2841, 2842, 3930, 3931, 3934, 3936, 3937, 3939, 3940, 3942  
G: 357, 1789  
P: 799, 1132, 1133  
C: 240, 806, 807

## Herbicides, carboxylic acid, anilides and related compounds

L: 2836, 2842, 3915, 3929, 3941  
 G: 358, 364, 785, 1191, 1774, 1775, 1794  
 C: 69, 505, 1113, 1115

## —, triazine derivatives

L: 695, 707, 1778, 1780, 1784, 1785, 2222, 2251, 2842, 2843, 3932, 3933, 3935, 3938  
 G: 354, 356, 784, 1192-1194, 1198, 1781, 1782, 1785, 1930  
 P: 182, 183, 270  
 C: 241, 805, 888, 1114

## —, urea derivatives

L: 710, 1779, 2251, 2842  
 G: 357, 1199, 1779  
 C: 238, 239, 1116

## Heterocyclics, nitrogen (other)

L: 605, 618, 1654, 1656, 1962, 2905, 3815  
 G: 485, 750, 800, 1141, 1145, 1148, 1395, 1709-1712, 1787, 1957  
 P: 455, 767

see also individual groups of nitrogen containing heterocyclics and drugs

## Heterocyclics, oxygen (other)

L: 1347(review)  
 G: 204, 485, 671, 683, 1052, 1584, 1852, 1889, 1923  
 P: 400(review), 595  
 C: 415

see also individual groups of oxygen containing heterocyclics

## —, sulphur (other)

L: 626, 1662, 3818  
 G: 313, 485, 516, 800, 1152, 1332, 1721, 1957

see also Thiazoles and isothiazoles; Thiophenes

## Histamine and related substances

L: 339, 2457, 3509  
 G: 1150  
 P: 408  
 C: 425, 430, 990

see also Imidazoles

## Hormones peptidic and proteinous (including synthetic analogues)

L: 405, 2508, 3561, 3575  
 P: 421  
 E: 42, 651, 652, 654, 656, 660, 662-665  
 C: 436

see also individual categories of peptidic hormones

## Humic acids

L: 942, 950, 1800, 1804, 3418, 3965, 3968  
 G: 1070, 1319, 1624, 1924  
 P: 494, 575  
 E: 2542  
 C: 245, 809, 1104, 1117

## Hydrazines, hydrazides and hydrazones

L: 1373, 2448  
 G: 1195, 1348  
 C: 558

## Hydrocarbons

L: 128-140, 1168-1184, 2236-2245, 3265-3278  
 G: 152-194, 627-650, 1004-1032, 1522-1564  
 P: 21-24, 274-281, 570-574, 921-925  
 C: 408, 409, 678, 959, 960

## —, theory and techniques

G: 916, 962

## Hydrocarbons, aliphatic

L: 128, 1168, 2236  
 G: 30, 79, 152-156, 458, 508, 553, 628-630, 898, 913, 983, 1004-1009, 1495, 1522-1529, 1561, 1886, 1944  
 P: 274, 398

## —, cyclic

L: 56, 66, 73, 102, 129-138, 155, 920, 939, 941, 1009, 1069, 1084, 1135, 1168-1173, 1175, 1179, 1180, 1182, 1351, 2137, 2140, 2161, 2176, 2177, 2182, 2237-2245, 2247, 2445, 2453, 2735, 3119, 3145, 3179, 3180, 3182, 3197, 3233, 3265-3272, 3273(review), 3275, 3278  
 G: 13, 35, 108, 157-168, 170, 171, 412, 426, 467, 475, 485, 632-639, 906, 984, 1000, 1010-1019, 1307, 1310, 1338, 1358, 1477, 1516, 1530-1546, 1550, 1561, 1807, 1910, 1933, 1934, 1957, 1970

P: 21, 250, 276-278, 409, 521, 557, 570, 921-923, 929

C: 2, 341, 408, 651-653, 678, 919, 927, 959, 960, 1098

## —, halogen derivatives

L: 153, 1009, 1181, 3277  
 G: 60, 172-190, 400, 554, 636, 640, 641, 643, 645, 646, 648-650, 781, 900, 921, 963, 964, 967, 1000, 1004, 1020-1030, 1126, 1300, 1549, 1552, 1556-1558, 1836, 1912, 1921, 1948  
 P: 947  
 C: 409

see also Biphenyl and derivatives; Pesticides, chlorinated

## —, complex mixtures

L: 139, 140(review), 1182  
 G: 75, 191-193, 499, 627, 832, 851, 853, 900, 915, 1017, 1031, 1032, 1275, 1345, 1559, 1560, 1563, 1564, 1677, 1947  
 P: 279

## Hydrogen

G: 529, 871, 872, 1887

## Hydrolases, acting on ester bonds (E.C. 3.1.--)

L: 523-528, 1560-1569, 2658-2665, 3711-3720  
 P: 736  
 E: 63, 135, 213, 326, 349-360, 907-925, 1091, 1634-1642, 1811, 2244, 2258-2263, 2264(review), 2265  
 C: 457, 760-762

## —, —, structural studies

E: 915

## —, acting on glycosyl compounds (E.C. 3.2.--)

L: 529-536, 1027, 1444, 1570-1577, 2666-2672, 3587, 3721-3723  
 P: 140  
 E: 361-366, 926-929, 1328, 1643-1649, 2266-2273  
 C: 763

## —, —, structural studies

L: 1439, 2526

## —, acting on peptide bonds (E.C. 3.4.--)

L: 438(review), 478, 540, 543-547, 1123, 1499, 1578, 1579, 1581-1585, 1587-1590, 2572, 2673-2676, 2678-2680, 2682-2684, 2686, 2688, 2689, 3568, 3724, 3725, 3729-3732  
 E: 47, 368-370, 372-374, 376, 377, 379-381, 383, 384, 387, 388, 781, 799, 932-936, 938-942, 944, 945, 947-949, 1192, 1288, 1469, 1651, 1652, 1654-1664, 1896, 1948, 2038, 2275, 2277, 2279, 2280, 2283-2285, 2289-2291  
 C: 184, 458, 1038, 1039

## —, —, structural studies

L: 422, 2531, 2690  
 E: 50, 379

- C: 1038
- Hydrolases, acting on C-N bonds other than peptide bonds**  
(E.C. 3.5.-.-)
- E: 382, 950, 1665
- , —, structural studies  
L: 538, 539, 548, 550, 2677, 2687, 3726, 3727
- , acting on acid anhydride bonds (E.C. 3.6.-.-)  
L: 1586  
E: 367, 371, 375, 378, 385, 386, 533, 732, 930, 931, 937, 943, 1650, 1653, 1666, 2276, 2288
- , —, structural studies  
E: 371, 533
- , acting on sulphur-nitrogen bonds (E.C. 3.10.-.-)  
L: 3726
- , uncompletely identified  
L: 1580  
E: 385, 946
- , activity measurement  
L: 523, 530, 3350  
G: 1103  
E: 1192
- Hypnotics (barbiturates, sedatives)**  
L: 783, 804, 815, 816, 1866, 1867, 1884, 1901, 2911, 2925, 2932, 2949, 2950, 2958, 2960, 2964, 4080, 4084  
G: 390, 803, 1229, 1251, 1839  
P: 212, 214, 215(review), 558, 830, 837, 839, 1169  
C: 269
- Hypolipidemic agents**  
L: 1852, 2886, 2901, 3006, 4024, 4030, 4147
- Hypotensives and antihypertensives**  
L: 759, 1854, 1859, 1944, 2885, 2887, 2889, 2893, 2896, 2899, 2903-2905, 2952, 4034, 4036, 4039  
G: 1828  
P: 207, 502, 504, 825-827  
C: 820, 823  
see also Adrenergic and adrenergic blocking agents
- I**
- Imidazoles and related compounds**  
L: 604, 605, 614(review), 616, 1379, 1653, 3000, 3510, 3812, 3814  
P: 1100  
C: 217(review), 219(review)  
see also Histamine and related substances
- Immunosuppressives and immunomodulatory drugs**  
L: 271, 865, 1698, 1717, 1963, 2829, 3010, 3758, 4130, 4137  
G: 1240  
C: 499, 1143  
see also Peptide and amino acid antibiotics
- Indole alkaloids**  
L: 598, 3788
- Indoles, techniques**  
L: 605, 2735  
G: 1707
- , applications  
L: 336(review), 342, 604(review), 608, 609(review), 610(review), 611, 1645, 1646, 2736-2738, 3808-3811
- G: 309, 310, 406, 1295  
P: 156(review), 157, 761-763, 975  
C: 217(review), 489, 506, 1096
- Inhibitors of enzymic activity, proteinous**  
L: 496-498, 1517, 1520, 1523-1525, 1527, 2622, 3666, 3669-3671  
E: 301, 302, 739, 873, 877, 880, 893, 1598, 2215
- , —, structural studies  
E: 1995
- , non-proteinous  
L: 175, 669, 670, 685, 687, 688, 754, 841, 892, 894, 1945, 1968, 2355, 2879, 2899, 2933, 2981, 2984, 3013, 3032, 3234, 3884, 4061, 4063, 4091, 4112, 4124, 4149, 4169, 4219  
P: 502, 797  
C: 264, 825
- Inks**  
P: 810, 900
- Inorganic compounds**  
L: 951-983, 2053-2111, 3083-3115, 4227-4301  
G: 524-534, 871-877, 1364-1370, 1979-1987  
P: 254-261, 547-550, 902-908, 1198-1203  
E: 1956, 1957, 2558  
C: 293-305, 544-558, 864-873, 1163-1178  
see also Anions, inorganic; Cations, inorganic; individual types of anions and cations
- , reviews and books  
L: 4227-4230  
G: 1369
- Insulin and analogues**  
L: 1424, 1427, 2523, 3651  
E: 41, 655, 1288  
C: 728
- Iridoid glucosides**  
L: 2009, 4165, 4184  
G: 1366  
C: 985, 1154
- Iron, see Cations, inorganic, analytical group III**
- Isocyanates and cyanates, inorganic, see Halides and other inorganic halogen containing compounds**
- , organic  
L: 1360, 1376  
P: 718
- isomerases**  
L: 558, 559, 1594, 3739  
E: 393, 953-956, 1668-1670, 1685, 2230, 2293, 2294, 2465
- , structural studies  
E: 2202
- L**
- Larvicides, insecticides**  
L: 697, 715, 2846, 3781  
G: 1690
- Laxatives**  
L: 1940  
C: 527

- Lead, *see* Cations, inorganic, analytical group I and IIa
- , organic  
G: 319, 756, 1732
- Lectins  
L: 213, 242, 1255, 1274, 1283, 2303, 2333, 2340, 2347, 3386  
E: 20, 632, 633, 638, 1264, 1272  
C: 112
- Lichen acids  
P: 868
- Ligases, forming C-O bonds (E.C. 6.1.-.-)  
L: 2701
- , forming C-N bonds (E.C. 6.3.-.-)  
E: 397
- , other (including E.C. 6.5.-.-)  
L: 3704
- Lignin compounds  
L: 166, 1993, 2291, 2294, 2295, 3327  
G: 565, 862, 865, 909, 1053, 1111, 1319, 1337, 1371, 1927  
P: 880  
C: 852
- Lipids  
L: 278-291, 1309-1314, 2389-2406, 3436-3452  
G: 248-253, 706-709, 1094-1099, 1639-1644  
P: 78-110, 346-386, 648-682, 977-1031  
E: 26, 1274  
C: 134, 706
- , reviews and books  
L: 2397, 2399, 3440, 3443, 3449  
G: 709, 1643  
P: 995, 996, 1009, 1018, 1030  
E: 1470
- , general techniques  
L: 278, 285, 291, 1310-1312, 2122, 2398, 2402, 3438, 3439, 3450  
G: 707, 1641, 1642  
P: 82, 97, 107, 354, 359, 379, 561, 657, 1008, 1010, 1020  
E: 1987
- , group separation  
L: 1689, 2402  
G: 1644  
P: 348, 363, 368, 1015
- , applications, non-biological  
L: 2391, 2392, 2403, 3437  
P: 90, 108, 109, 366, 370-372, 378, 379, 648, 652, 666, 986, 990, 1004, 1006, 1016, 1013, 1027, 1028
- , —, microorganisms  
L: 3447  
P: 78, 102, 106, 107, 364, 373, 382, 426, 978, 983, 989, 992, 1000, 1029
- , —, plants  
L: 2395, 2631  
P: 105, 110, 346, 349, 362, 363, 383, 656, 679, 979
- , —, blood  
P: 985
- , —, brain and nerve tissue  
P: 981
- , —, milk and food products  
L: 279, 2400, 3441, 3444-3446  
G: 249
- P: 74, 92, 336, 339, 351, 358, 360  
*see also* Food analysis
- Lipids, applications, other animal material  
L: 630, 3442, 3436, 3453  
G: 251, 1098, 1639, 1640  
P: 100, 350, 367, 375, 654, 671, 677, 980, 987, 1003, 1007, 1011, 1019
- , oxidation products  
L: 270, 1333, 2389, 2399(review), 3826  
P: 968, 1012
- Lipopolysaccharides  
L: 60, 2307, 3224, 3448  
P: 625  
E: 629, 1248, 1972  
C: 419
- , structure studies  
L: 2396  
C: 692
- Lipoproteins (including apolipoproteins), applications  
L: 292, 293, 1315-1317, 2407, 3454  
P: 86, 111, 387, 388, 1078  
E: 27-37, 643-649, 825, 1275-1284, 1984-1986  
C: 707
- , structure studies  
L: 3453  
*see also* Proteins of blood, serum and blood cells
- Local anaesthetics, *see* Anaesthetics
- Lubricants  
L: 4222
- Lyases, carbon-carbon (E.C. 4.1.-.-)  
L: 1591, 2656, 2692, 3733, 3734  
E: 391, 1562, 2292
- , carbon-oxygen (E.C. 4.2.-.-)  
L: 1592, 2691, 2693, 2695, 3735, 3737  
E: 952  
C: 459
- , other  
L: 1593, 2694, 3736, 3738  
E: 390

## M

- Macrolides (including erythromycin)  
L: 671, 675, 689, 865, 1697, 1698, 1711, 1716, 1727, 1741, 1742, 1753, 2787, 2788, 2792, 2799, 2808, 2814, 2819, 3865, 3869, 3872, 3887, 3890  
P: 468, 785, 789  
C: 801
- Magnesium, *see* Alkaline earths
- Manganese, *see* Cations, inorganic, analytical group III
- Mercury, *see* Cations, inorganic, analytical group I and IIa
- , organo-compounds  
L: 636  
G: 317, 318, 320, 322, 767, 1158, 1723-1726, 1728  
P: 461, 903
- Metalloenes  
G: 1157

## Mineral oils, hydrocarbons

P: 280, 571

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

## Mycolic acids

L: 271

## Mycotoxins, other

L: 174(review), 175, 1215-1226, 2283, 2285-2287, 2289, 3318, 3320-3322, 3905

G: 670, 1583-1586

P: 43, 44-46, 291(review), 293, 297, 509, 587, 588, 590, 591, 858, 860, 941, 942, 1133

*see also* Aflatoxins

## Myorelaxants

L: 777, 795, 1864, 1876, 1893, 1949, 2929, 2956, 4026, 4086

P: 834, 845

**N**

## Narcotic analgesics and antagonists

L: 1897, 1978, 3796, 4057, 4058, 4078, 4089

C: 788

## Neuroleptics

L: 1873, 2916, 2941, 2953

G: 800

C: 829

Neuromuscular blocking agents, *see* Myorelaxants; Cholinergic and cholinergic blocking substancesNickel, *see* Cations, inorganic, analytical group III

## Nicotinic acid and derivatives

L: 642, 648(review), 1551

P: 1117(review)

C: 227(review)

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

## Nitrate, alkyl

G: 1967

## Nitriles

L: 1067

G: 611

*see also* Nitrogen compounds, inorganic

## Nitro compounds

L: 157, 322, 323, 1131, 1350, 1351, 1354-1356, 1761, 2442, 2443, 2445, 2836, 2972, 3487

G: 281, 282, 729, 730, 737, 961, 1128, 1129, 1301, 1678, 1679

P: 26, 248, 404-406, 557, 714, 760, 761

C: 366, 652

*see also* Explosives

## Nitrogen

G: 528, 532, 1367, 1914

## Nitrogen compounds, inorganic

L: 2109, 2110, 3106, 4272, 4285, 4287, 4288, 4294, 4298

G: 525-527, 1364

P: 714

C: 298, 301, 304, 552, 871-873, 1177

*see also* Ammonia

## Nitrogen oxides

L: 322, 2111, 4301

G: 317, 533, 874, 954, 1271, 1985, 1986

## Nitrosamines

G: 280, 283

## Nitroso compounds

L: 1353, 2444

P: 1057

## Noble gases

G: 528

Noble metals, *see* Platinum metals and goldNucleic acids, *see* DNA; RNANucleosides, *see* Purines, pyrimidines, nucleosides, nucleotidesNucleotides, *see* Purines, pyrimidines, nucleosides, nucleotides**O**

## Oestrogens, techniques and theory

L: 305, 1325, 1327, 2422, 2847

G: 259

C: 103, 135, 708

## —, applications, non-biological

L: 296, 304, 893, 1331

G: 1043

C: 709

## —, —, biological

L: 305, 1323, 1328-1330, 2423, 2424, 3466-3469

G: 255, 717, 719, 1104-1106, 1645

P: 390

## —, —, non-steroidal

L: 1326

G: 1302

## Oligonucleotides and polynucleotides

L: 562, 584, 1596, 1604, 1607, 2500, 2698, 2706, 2717, 3757, 3761, 3773

P: 61, 429, 430

E: 408, 415, 651, 672, 796, 830, 961, 963-971, 973-976, 979, 980, 982-986, 1084, 1103, 1105, 1111, 1113, 1123, 1144, 1146, 1160, 1169, 1535, 1676(review), 1679, 1680, 1683-1685, 1689, 1691, 1692, 1804, 1861, 1871, 2305, 2307

C: 205, 460, 483, 765-767, 770, 1040(review), 1041, 1043, 1044(review), 1045(review), 1068

## Oligosaccharides

L: 204, 208, 211, 216, 221, 1242, 1244, 1247, 1250-1252, 1260, 1266, 1296, 2303-2307, 2309, 2310, 2331, 2342, 2420, 2667, 3354, 3357, 3365, 3374, 3386

G: 1601

P: 306, 308, 313, 584, 607, 610, 612, 614, 931, 958, 963

E: 10(review), 12, 628

C: 117, 118(review), 119(review), 121, 123, 124(review), 416, 694, 697, 967, 969

## Opium alkaloids

L: 1621, 1627, 1631, 2729, 3786, 3790, 3795, 3799, 3802, 4070

G: 308, 408, 420, 425, 1252, 1834, 1869

P: 226, 443, 449, 755

C: 216, 788, 850

## Organoleptics (flavors, volatiles, odours)

L: 182, 1342, 2027, 2979(review), 3070, 3115

G: 2, 169, 281, 442-452, 725, 827, 1058, 1261, 1276, 1278-1289, 1333, 1383, 1502, 1509, 1533, 1658, 1672, 1716, 1717, 1894, 1897-1901

- C: 433, 558
- Organometallic compounds (other)
- L: 632, 634, 1059, 1399, 1669, 2756, 2760
- G: 115, 321, 748, 758, 1157, 1172, 1737
- P: 460, 771, 1105
- , reviews and books
- L: 639
- see also Coordination compounds; Porphyrins and metalloporphyrins; Tin, organic; Ferrocenes
- Oxazines
- G: 1685, 1686
- Oxazolines
- G: 39
- Oxidoreductases, acting on the C-OH group of donors (E.C. 1.1.-.-)
- L: 1528, 1532, 2532, 2635, 2637, 2645, 3683
- E: 309, 883, 889, 1605, 1608, 1610, 2231
- , acting on aldehyde or keto group of donors (E.C. 1.2.-.-)
- L: 502, 1535
- E: 312
- , acting on CH-CH group of donors (E.C. 1.3.-.-)
- L: 1536, 2630, 2632
- , acting on CH-NH<sub>2</sub> group of donors (E.C. 1.4.-.-)
- L: 1546, 2633, 2642, 3684
- E: 881, 1609
- C: 758
- , acting on CH-NH group of donors (E.C. 1.5.-.-)
- L: 3675
- , acting on reduced NAD or NADP as donor (E.C. 1.6.-.-)
- L: 2639, 3682, 3690, 3694, 3695
- E: 886, 2232
- , acting on the sulphur group of donors (E.C. 1.8.-.-)
- L: 2634
- , on a haem group of donors (E.C. 1.9.-.-)
- E: 305
- , acting on H<sub>2</sub>O<sub>2</sub> as acceptors (E.C. 1.11.-.-)
- L: 501, 505, 506, 1544, 1547, 2627, 2629, 3687, 3688, 3691, 3693
- E: 303, 305, 918, 1607, 1612, 1894, 2227
- C: 98
- , acting on single donors with incorporation of oxygen (oxygenases) (E.C. 1.13.-.-)
- L: 499, 503, 1533, 1534, 2348, 2377, 2631, 2644
- E: 885, 2224, 2228, 2230
- , acting on paired donors with incorporation of oxygen into one donor (hydroxylases) (E.C. 1.14.-.-)
- L: 1529-1531, 1537, 1538, 1541, 1543, 1549, 2628, 2638, 2640, 3674, 3676-3680, 3685, 3686, 3692, 3696, 3742
- E: 313, 2226
- , —, structural studies
- L: 2626
- G: 1279
- , acting on superoxide radicals as acceptor (E.C. 1.15.-.-)
- L: 1545, 2625
- E: 307, 468, 884, 1363, 2225
- , other and incompletely identified oxidoreductases (E.C. 1.99.-.-)
- L: 1539, 2636, 2641, 3681
- E: 311
- , activity measurements
- L: 2374

## Oxo compounds, reviews

L: 1051

## —, general techniques

L: 198-200, 1195, 1658, 3329, 3334, 3337

G: 1055, 1056, 1292, 1313

P: 303, 305, 598, 600, 602, 947, 948

C: 12, 282, 366, 646, 931, 961, 962

## —, aliphatic aldehydes and ketones

L: 190, 192, 194, 266, 1231, 1233, 1235, 1240, 2292, 2296, 2300, 2382, 2447, 3040, 3330, 3332, 3335, 3340

G: 28, 105, 213, 216-219, 518, 677, 678, 680-683, 685, 863, 1056, 1059, 1346, 1592, 1593, 1595-1597, 1599, 1889, 1923

P: 301, 599, 601, 949, 968

C: 687

## —, cyclic aldehydes and ketones

L: 1234, 1237, 1238, 2293, 3150, 3333, 3338

G: 28, 49, 78, 214, 215, 519, 679, 684, 686, 716, 825, 863, 1047, 1051, 1057, 1058, 1594, 1598, 1945

P: 596, 849

C: 331, 963

## Oxygen

G: 528, 532, 1367, 1914

## P

## Pantothenic acid and coenzyme A

L: 1657, 1687, 3841, 3844

## Papaveraceae alkaloids (excluding opium alkaloids)

L: 600, 602

## PCR products, see Polymerase chain reaction (PCR) products

## Penicillins (including carbapenem antibiotics)

L: 670, 1702, 1710, 1718, 1722, 1726, 2793, 2798, 2805, 2822, 2823, 3860, 3863, 3876, 3883, 3885, 4008, 4168

P: 470, 788, 1124

## Peptide (and amino acid) antibiotics

L: 666, 677, 1717, 1721, 1737, 1738, 1753, 2801, 2809, 2817, 2818, 2824, 2829, 3861, 3877, 3893, 3895-3897

P: 471

E: 1289(review)

C: 232, 499, 651, 764, 803, 804

## Peptides

L: 381-416, 1398-1436, 2495-2524, 3549-3576

P: 134-137, 729-735, 1076-1082

E: 40-47, 651-665, 1288-1299, 1989-1993

C: 156-162, 436-439, 722-731, 1002-1016

## —, reviews and books

L: 2338, 2495, 2507, 2513

P: 417, 735

E: 1289, 1290, 1411

C: 148, 447, 722, 725, 1002

## —, techniques

L: 381, 390, 391, 393, 398, 401, 409, 411, 413, 416, 455, 1110, 1380, 1405, 1407, 1411-1417, 1420, 1425, 1432, 1435, 2145,

2480, 2493, 2496, 2504, 2510, 2518, 2520, 2522, 2524, 2936, 3227, 3529, 3544, 3551, 3555, 3564, 3565, 3571, 3575, 3598

P: 415, 416, 420, 729, 734, 1077, 1078

E: 40, 46, 47, 653, 661, 676, 680, 1239, 1240



- C: 21, 80, 97, 154-162, 171, 351, 352, 437, 439, 441, 630, 644, 655, 718, 724, 726, 727, 730, 883, 892, 924, 1004, 1006-1010, 1012, 1015-1017
- Peptides, techniques, dansyl derivatives  
L: 2499
- , applications, non-biological  
L: 382, 384, 386-389, 392, 394-396, 400, 402, 403, 406, 410, 412, 489, 1399, 1409, 1410, 1418, 1421, 1423, 1425, 1429, 1434, 1436, 2498, 2501, 2503, 2509, 2521, 2780, 2936, 3554, 3556-3559, 3567, 3568, 3570, 3572, 3573, 3576  
P: 134, 733, 1074, 1079-1082  
E: 187, 657, 658, 1291, 1298, 1547, 1563, 1602, 1991, 1992, 2141  
C: 723, 975, 1005
- , —, microorganisms  
L: 399, 404, 1401, 1408, 1419, 1430, 1603, 2514, 2560, 2674, 3550, 3574, 3605  
G: 144  
P: 137, 1076  
E: 659, 1297, 1411(review)
- , —, plants  
L: 1400, 1428  
P: 103  
E: 2095
- , —, animal material  
L: 383, 385, 397, 403, 408, 412, 414, 415, 481, 1403, 1406, 1422, 1431, 1433, 2496, 2500, 2505, 2506, 2511, 2512, 2515-2517, 2519, 2590, 2604, 2690, 3526, 3549, 3552, 3553, 3560, 3562, 3563, 3569, 3621, 3656, 3669  
P: 418, 419, 730-732  
E: 45, 1295, 1989, 2025  
C: 438, 729, 731, 1003, 1011, 1014, 1016  
see also Hormones peptidic and proteinous; Pituitary hormones and proteins; individual types of peptide hormones
- , —, food products  
L: 407, 1407, 2499
- Peroxides  
L: 219  
G: 254, 533, 710  
C: 133, 258, 772
- Pesticides  
L: 691-715, 1759-1792, 2830-2851, 3907-3946  
G: 329-365, 763-788, 1168-1199, 1742-1800  
P: 171-188, 474-480, 790-801, 1129-1135  
C: 236-243, 504-506, 805-808, 1109-1116
- , reviews and books  
L: 694, 695, 2835, 3907  
G: 1744, 1787, 1791, 1930  
P: 1129  
C: 236, 628
- , techniques and complex mixtures  
L: 691-693, 696-698, 941, 1127, 1134, 1759-1763, 1764(review), 1791, 2038, 2830-2833, 2847, 2850, 3233, 3908-3912, 3942  
G: 329-339, 363, 763-766, 768-770, 782, 822, 833, 1161, 1168-1171, 1173-1177, 1193, 1305, 1331, 1406, 1487, 1562, 1742, 1743, 1745-1747, 1749-1757, 1772, 1800, 1919, 1934  
P: 171-173, 474, 475, 790-795, 800  
C: 346, 1109-1111, 1116
- , carbamates  
L: 695, 703, 704, 1767, 1771-1776, 2838-2840, 3922-3927, 3928(review), 3939  
G: 350, 351, 354, 781, 1773, 1776, 1777  
P: 180, 478(review), 798, 1131  
C: 237, 1112
- Pesticides, chlorinated  
L: 699-701, 1025, 1765-1767, 2251, 2834, 2835(review), 2842, 3781, 3913-3918  
G: 91, 340-342, 645, 648, 771-779, 1178-1187, 1197, 1455, 1481, 1548, 1555, 1659, 1758-1769, 1795  
P: 174-176, 796  
E: 2123  
C: 68, 504, 1033
- , phosphorus  
L: 702, 1761, 1768-1770, 2251, 2835(review), 2836-2838, 2842, 3919-3921, 3936  
G: 282, 343-349, 780, 867, 1176, 1188-1190, 1192, 1503, 1770-1772, 1780, 1781, 1788  
P: 175-179, 476, 477, 797, 1130  
C: 791
- Petroleum hydrocarbons, see Mineral oils, hydrocarbons in
- Pharmaceutical applications  
L: 735-933, 1815-2024, 2869-3069, 3978-4195  
G: 380-429, 794-819, 1212-1261, 1819-1874  
P: 200-246, 498-539, 819-893, 1149-1193  
E: 1213, 1947-1950, 2543-2546  
C: 249-283, 508-532, 810-853, 1119-1154
- , reviews and books  
L: 57, 344, 735, 738, 747, 748, 1815, 1819, 1821, 1825, 2536, 2745, 3979, 3980, 3986, 3987, 3992  
G: 381, 1214  
P: 201, 555, 820, 1149  
C: 19, 72, 74, 249, 250, 393, 511, 628, 810, 811, 856, 1119
- , synthetic drugs, general techniques  
L: 20, 31, 41, 62, 85, 100, 332, 736, 737, 739-746, 827, 867, 1060, 1070, 1105, 1122, 1136, 1816-1818, 1820, 1822-1824, 1826-1828, 2038, 2048, 2141, 2196, 2204-2206, 2386, 2743, 2772, 2869-2876, 3039, 3187, 3978, 3981-3985, 3988-3991, 3993, 3994  
G: 795, 796, 1103, 1155, 1166, 1212, 1215, 1216, 1228, 1232, 1239, 1506, 1565, 1819, 1821-1824, 1845, 1847, 1886  
P: 163, 200, 508, 819  
E: 1213, 2543  
C: 47, 251-256, 359, 363, 382, 508-510, 512, 640, 655, 667, 671, 812, 813, 917, 928, 941, 977, 1120
- , systematic analysis and screening programs  
L: 2196, 2876, 3990  
G: 403
- , complex mixtures  
L: 3276  
G: 775, 1261, 1849
- , auxiliary compounds (excipients)  
G: 383, 400, 667, 794, 1234  
C: 846
- Pharmaceutical and cosmetic dyes  
L: 1793, 1794, 3950, 3951  
P: 805  
C: 507

- Pharmacokinetic studies, *see* Drug monitoring and pharmacokinetic studies
- Phenols, reviews and books  
 L: 2256, 2276, 3220
- , theory  
 L: 1009  
 G: 96, 976, 1575, 1577, 1580, 1582
- , techniques  
 L: 161, 1192, 1201, 2258, 2756, 3285  
 G: 659, 1038, 1043  
 P: 284, 557, 929  
 C: 102, 410, 411, 684
- , applications  
 L: 54, 137, 148-160, 162, 163, 705, 907, 946, 1086, 1163, 1188-1191, 1193-1202, 1203, 1230, 1234, 1291, 2248, 2251, 2253-2255, 2257, 2259-2264, 2267, 2437, 2855, 2857, 2861, 3043, 3153, 3197, 3284, 3286-3300, 3328, 3333, 3943, 4200  
 G: 199-201, 282, 370, 504, 651, 660-668, 825, 863, 1039-1042, 1044-1048, 1078, 1335, 1574, 1576, 1578, 1579, 1581, 1582, 1590, 1796  
 P: 26-29, 283, 285-287, 577, 578, 645, 715, 928  
 C: 12, 103-106, 360, 366, 591, 677, 679-683, 981
- Pheromones  
 G: 515, 1008, 1034, 1263, 1508, 1572, 1622
- Phospholipids  
 L: 281-283, 287, 288, 1313, 1665(review), 1666, 2391, 2394, 2404, 2406(review), 2753, 3440(review), 3452, 3453  
 G: 1644  
 P: 83, 85, 88, 91, 98, 99, 103, 350, 355(review), 361, 367, 369, 374, 376, 377, 380, 381, 385-387, 422, 462, 650, 652, 653, 656, 657, 662, 664, 665, 677, 678, 680, 681, 770, 977, 985, 991, 993, 994, 997, 999, 1014, 1023, 1024  
 E: 645, 1258, 1368  
 C: 134, 706  
*see also* Sphingolipids
- Phosphoramidate derivatives  
 G: 1154
- Phosphorus compounds, inorganic  
 L: 976, 979, 2754, 3112, 4275, 4294  
 G: 755, 1154, 1788  
 P: 259, 550  
 C: 298, 552
- , organic, techniques  
 L: 1665(review), 1667, 2406(review), 2487, 2750, 2755  
 G: 1788  
 P: 457(review)  
 E: 1946(review)
- , —, applications  
 L: 262, 288, 401, 563, 630, 976, 1257, 1313, 1377, 1436, 1565, 1606, 1663, 1664, 1666, 1936, 2098, 2394, 2497, 2547, 2698, 2751-2754, 3192, 3401, 3555, 3751, 3764, 3824, 3826-3828, 3937, 4102  
 G: 315, 752-755, 1155  
 P: 70, 83, 85, 86, 91, 98, 103, 298, 351, 361, 369, 374, 376, 381, 385-387, 417(review), 418-420, 458, 459, 561, 649, 653, 664, 680, 681, 770, 953, 977, 991-994, 999, 1008, 1014, 1023, 1067, 1102, 1103  
 E: 62, 415, 645, 676, 718, 742, 984, 1263, 1286, 1303, 1326(review), 1374, 1945, 1988, 2540
- C: 223, 224, 417, 462, 495, 771, 790, 791, 1006, 1042, 1068, 1100, 1101  
*see also* Purines etc.; Phospholipids
- Pigments natural (and fluorescent substances)  
 L: 181, 717-722, 724, 1069, 1206, 1672, 1675, 1694, 1795-1797, 1801-1803, 2768, 2769, 2779, 2810, 2858, 2859, 2861, 3003(review), 3323, 3842, 3846, 3849, 3858, 3953-3960, 3962-3964, 3966, 3967, 3969  
 G: 295, 850  
 P: 193-198, 236, 486-489, 490(review), 491-493, 777, 778, 809, 811-815, 1141, 1142(review), 1143-1146  
 E: 603, 1211  
 C: 414
- Piperazines  
 P: 11
- Pituitary hormones and proteins  
 L: 2504, 3566
- , synthesis and structural studies  
 L: 3566
- Plant extracts, reviews and books  
 P: 533, 553, 872, 882
- , applications  
 L: 24, 99, 154, 180, 189, 191, 203, 227, 238, 274, 315, 317, 629, 861, 907-933, 1112, 1188, 1228, 1236, 1293, 1335, 1338, 1639, 1846, 1932, 1981-2024, 2046, 2247, 2254, 2357, 2437, 3001, 3042-3069, 3165, 3264, 3284, 3296, 3307, 3782, 3793, 3797, 3800, 3801, 4001, 4115, 4152, 4163-4195  
 G: 427, 429, 850, 1036, 1149, 1260, 1663, 1666, 1766, 1851, 1871, 1872  
 P: 31, 148, 157, 228-246, 273, 515-532, 534-539, 605, 822, 847, 849, 866-871, 873-881, 883-893, 933, 939, 948, 1172-1193  
 E: 1070, 1950  
 C: 136, 280-282, 283(review), 415, 461, 685, 705, 851-853, 979, 1150-1154
- Plasticizers, stabilizers (including other additives)  
 L: 2262, 2364, 2868  
 G: 490, 491, 513, 1308, 1411, 1814
- Plastics and other synthetic polymers (including intermediates)  
 L: 725-734, 1805-1814, 2862-2868, 3970-3977  
 G: 1801-1818  
 P: 199, 495-497, 816-818, 1147, 1148  
 E: 1212  
 C: 246-248, 1118
- , reviews and books  
 L: 3974  
 G: 367
- , techniques and theory  
 L: 727-730, 732, 1806, 1807, 1811, 1813, 2862, 2864-2867, 3157, 3411, 3970-3973, 3975, 3977  
 G: 368, 373, 496, 1463, 1815  
 P: 199, 495-497, 816, 818  
 C: 246, 247, 586, 1118  
*see also* individual types of plastics
- Platinum metals and gold  
 L: 959, 2075, 2065, 3096  
 C: 464, 866, 1167
- Polyamides, polyimides and their intermediates  
 L: 1814  
 E: 650

Polyamines, *see* Amines, polyamines and their derivatives

Polyene antibiotics

L: 3871

P: 170, 1121

Polyethers

G: 1207, 1808

Polymerase chain reaction (PCR) products

L: 1620, 3777, 3779

E: 43, 76, 99, 151, 319, 346, 377, 392, 437, 450, 454, 496, 522, 528, 536, 538, 543, 564, 573-583, 584(review), 585-600, 605, 607-611, 798, 807, 845, 975, 994, 1009, 1026, 1073, 1173-1207, 1215, 1251, 1636, 1688, 1841, 1873, 1875, 1876, 1879, 1884-1886, 1890, 1891, 1894, 1896, 1899, 1901, 1903, 1907, 1909, 1912, 1923, 1927, 1929-1932, 1937, 1938, 1940-1942, 1952, 1953, 2439, 2473, 2482, 2486, 2490, 2491, 2496, 2517, 2524, 2528, 2533, 2548-2553

C: 206(review), 207-211, 467, 480, 486, 775, 784-787, 854, 1088, 1091, 1092, 1156

Polynucleotides, *see* Oligo- and polynucleotides

Polyolefins

L: 2867

G: 369, 377, 490, 491, 1202, 1205, 1334, 1802, 1803, 1806, 1813

Polyoxyethylene and related polymers (inclusive pyrolysis products)

L: 2862

G: 374

Polysaccharides and their constituents

L: 226, 227, 228, 231, 232, 234(review), 235, 237, 238, 240, 248, 1120, 1268-1270, 2207, 2318-2322, 2324, 3053, 3368, 3371, 3372, 3376, 3382

P: 89, 321, 621, 622, 624, 961

E: 11, 631, 1247, 1250, 1983

C: 127, 693, 970, 971

*see also* Starch components

—, structural studies

L: 232, 235, 2325

G: 209, 614, 918, 1209

P: 59, 62, 616, 622, 962

Polyurethanes, *see* Urethanes and polyurethanes

Polyvinylalcohol

L: 725

Porphyrins and metalloporphyrins

L: 606, 607, 1147, 1641-1643, 1671, 1934, 2733

P: 154, 451, 452, 760, 1096

E: 2541

C: 218, 938, 1095

Potassium, *see* Alkali metals

Pregnane derivatives, techniques

L: 297, 2411, 2412, 2414, 2419, 2421, 3460, 3463

G: 256

C: 66, 364

—, applications, non-biological

L: 298, 299, 303, 843, 1750, 2410, 2420, 2901

P: 389, 684, 853

—, —, biological

L: 300, 1324, 1328, 2416, 3457, 3461, 3462

G: 712, 713, 715, 1101, 1102

P: 113, 115, 683-685, 1038

Propellants

L: 2049

G: 1340, 1969

Prostaglandins and thromboxanes

L: 276, 277, 343, 1308, 2388, 3435

G: 703-705, 711, 1092, 1093, 1634-1638

P: 77, 345

Protamines, histones and other nuclear proteins (including chromatin proteins)

L: 2559, 3638, 3639

P: 981

E: 33, 139, 223-234, 308, 429, 507, 789(review), 790-798, 998, 1084, 1094, 1110, 1298, 1419, 1493-1500, 1501(review), 1502, 1580, 1624, 1628, 1752, 1759(review), 1819, 2141-2155, 2200, 2229, 2504

C: 1034

Proteins

L: 429-498, 1443-1527, 2532-2624, 3586-3672

P: 422-426, 1083

E: 55-302, 677-880, 1309-1604, 1996-2222

C: 163-182, 440-455, 733-757, 1018-1036

—, reviews and books

L: 429, 748, 1446, 1451, 1533, 2577, 2382, 2495, 2535-2537, 2540, 2542, 3255, 3586, 3594, 4202

E: 59, 149, 678, 679, 683-685, 690, 691, 1222, 1290, 1309, 1316, 1322, 1323, 1326, 1329, 1333, 1337, 1378, 1411, 1412, 1415, 1470, 1501, 1505, 1531, 1997, 2004, 2007, 2008, 2014, 2124, 2217, 2264, 2554

C: 148, 175, 379, 440, 444-447, 738, 741, 745, 857, 922, 1022, 1023, 1025

—, general techniques

L: 12, 61, 125, 409, 430-435, 632, 1027, 1049, 1055, 1056, 1076, 1119, 1125, 1166, 1412, 1413, 1417, 1443-1445, 1447-1450, 1452, 1453, 1667, 2143, 2198, 2203, 2211, 2346, 2527, 2532-2534, 2538, 2539, 2541, 2543-2550, 3252, 3256, 3555, 3564, 3587-3593, 3595-3600, 3609, 4261

E: 3, 6, 55-58, 60-69, 221, 445, 677, 680-682, 686-689, 692, 780, 1078, 1227, 1231, 1232, 1234, 1239-1241, 1244, 1293, 1304, 1307, 1310-1315, 1317-1321, 1324, 1325, 1327, 1328, 1330-1332, 1334-1336, 1338-1354, 1451, 1457, 1487, 1591, 1964, 1996, 1998-2003, 2005, 2006, 2009-2013, 2073, 2122, 2281

C: 21, 38, 163-173, 353, 354, 441-443, 448, 612, 636, 644, 649, 674, 733-737, 739, 740, 742-744, 756, 846, 929, 1018-1021, 1024

*see also* Glycoproteins, lipoproteins

—, —, sequence and structural studies

L: 424-428, 1397, 1414, 1432, 2198, 2200, 2525, 2527, 2530, 2543, 3586(review)

E: 615(review), 676, 688, 1301-1305, 1307, 1944

C: 46, 162, 626, 655, 732, 737, 1017

*see also* structural studies on individual categories of proteins

—, cells, subcellular particles and viruses (including ribosomal proteins)

L: 436, 437, 438(review), 439, 440, 472, 1454, 1479, 2520, 2551-2553, 3601-3605, 3660, 3662, 3664

P: 422, 423

E: 70-132, 144, 148, 153, 161, 169, 173, 214, 215, 229, 242, 266, 269, 271, 434, 483, 693-734, 737, 747, 805, 819, 849, 894, 900, 1080, 1250, 1284, 1351, 1355-1377, 1378(review), 1379-1397, 1408, 1444, 1494, 1528, 1533, 1557, 1612, 1627, 1630, 1674, 1701, 1719, 1730, 1742, 1750, 1827, 1874,

- 2015-2030, 2031(review), 2032(review), 2033-2056, 2057(review), 2058-2062, 2092, 2142, 2145, 2175, 2192, 2193, 2205, 2207, 2327, 2344
- C: 174, 449, 450
- Proteins, cells, subcellular particles and viruses (including ribosomal proteins), structural studies
- L: 1437
- E: 79, 111, 666, 720, 729, 1308, 1387
- C: 174
- , synthesized by gene manipulation
- L: 394, 410, 428, 441, 442, 1455, 1456, 1466, 2344, 2552, 2554-2557, 2584, 2657, 2672, 3582, 3585, 3606-3609
- P: 424-426
- E: 80, 114, 132-137, 143, 145, 160, 165, 222, 257, 282, 284, 288, 289, 348, 387, 507, 692, 703, 722, 726, 730, 735-742, 745, 756, 785, 791, 823, 881, 882, 897, 935, 993, 1022, 1194, 1269, 1350, 1362, 1398-1408, 1418, 1436, 1452, 1462, 1587, 1598, 1631, 1646, 1658, 1708, 1719, 1788, 1905, 1975, 2024, 2026, 2027, 2033, 2038, 2062, 2063, 2064(review), 2065-2073, 2093, 2158, 2160, 2161, 2164, 2184, 2198, 2220, 2221, 2227, 2237, 2291, 2544
- C: 739
- , microbial and plant proteins (including proteins of foods of plant origin)
- L: 443-455, 1457-1462, 2520, 2527, 2546, 2558-2565, 2585, 2613, 2627, 3610-3618, 3658, 3662
- P: 1083
- E: 5, 83, 132, 136, 138-148, 149(review), 150-178, 179(review), 180-191, 262, 281, 296, 313, 603, 612, 633, 653, 689, 698, 717, 735, 743-766, 875, 880, 888, 1085, 1107, 1304, 1348, 1358, 1402, 1409, 1410, 1411(review), 1412(review), 1413, 1414, 1415(review), 1416-1461, 1565, 1591, 1604, 1708, 1843, 1849, 1920, 2074-2076, 2077(review), 2078-2104, 2227, 2287, 2327, 2545
- C: 175(review), 176, 451, 744, 745(review), 746, 747, 1026-1028
- , —, structural studies
- L: 2527, 3578, 3612
- E: 159, 171, 667, 752, 1427, 1456, 2098
- , of blood serum and blood cells
- L: 36, 55, 213, 456-460, 934(review), 1088, 1447, 1453, 1463-1480, 2185, 2220, 2336, 2346, 2577(review), 2555, 2566-2577, 2622, 3191, 3259, 3262, 3587, 3589, 3595, 3606, 3607, 3619-3636, 3637, 3665, 3712, 4261
- G: 729
- P: 426
- E: 14, 20, 80, 134, 192-205, 206(review), 207, 215, 240, 287, 604(review), 637, 646, 756, 767-778, 1214, 1253(review), 1281, 1288, 1462-1469, 1470(review), 1471-1478, 1479, 1523, 1719, 1967, 1973, 1979, 1993, 2063, 2067, 2088, 2105-2123, 2124(review), 2125-2129, 2159, 2259, 2496, 2547
- C: 177-179, 452-454, 696, 748-751, 754, 920, 1029-1033, 1155
- see also Lipoproteins; Chromoproteins and metalloproteins; Specific binding proteins (receptors)
- , —, structural studies
- L: 2336, 2555, 3626, 3628, 3636
- E: 199, 670, 671
- C: 696, 1029
- , structural proteins (except contractile elements)
- L: 462, 1481, 2506, 2509, 2576
- E: 209, 212, 214, 215, 218, 221, 222, 656, 779, 780, 782, 785, 787, 1293, 1300, 1482, 1485, 1487, 2051, 2130, 2138, 2139
- Proteins, structural proteins (except contractile elements), structural studies
- E: 668, 781, 785
- C: 1007
- , of brain, nerves, cerebrospinal fluid and eye
- L: 485, 486, 1502-1505, 2602-2604, 3655-3657, 3954
- E: 17, 36, 64, 79, 94, 95, 125, 231, 247-253, 289, 649, 818-828, 837, 1008, 1398, 1521-1530, 1531(review), 1532, 1701, 1725, 2038, 2066, 2128, 2148, 2170-2176, 2187, 2194
- C: 181, 252, 1039
- , —, structural studies
- L: 3584, 3656
- E: 51, 2194
- for eye pigments see Pigments natural (and fluorescent substances)
- , of muscle and meat products (including related contractile proteins)
- L: 461, 1482-1485, 2584, 3637, 3649
- E: 208, 210, 211, 213, 216, 217, 219, 220, 740, 783, 786, 788, 821, 1004, 1479-1481, 1483, 1484, 1486, 1488-1492, 1572, 1618, 1945, 2131-2135, 2137, 2140
- C: 752, 753
- , —, structural studies
- L: 1483
- E: 784, 1306
- , of glands and gland products (except mammary gland), various zymogens
- L: 472, 473, 475, 477, 480, 482, 1493, 1496, 2590, 2591, 2593-2596, 2500, 2601, 3648, 3649
- P: 111
- E: 73, 215, 229, 242, 244-246, 315, 336, 809, 810, 812, 815, 1509, 1511-1520, 1827, 1893, 2165, 2167
- , —, structural studies
- L: 1494
- , of milk
- L: 474, 1342, 1495, 2809, 3645, 3646, 3650, 3652
- E: 58, 243, 816, 1510, 2168, 2169
- C: 180, 755
- , —, structural studies
- L: 2529, 2809, 3577, 3579
- , of eggs
- L: 1501, 1518, 1519
- E: 817, 1597
- , urinary
- L: 1514-1516
- E: 287, 604(review), 1477, 1588, 2214
- , —, structural studies
- L: 1514, 1516
- , from neoplastic tissue
- L: 1506, 1507, 1617, 2605, 2606, 2614, 3604, 3658
- E: 13, 76, 99, 254-258, 273, 608, 664, 711, 796, 821, 829-845, 963, 1023, 1064, 1133, 1165, 1166, 1193, 1294, 1380, 1390, 1477, 1533-1543, 1549, 1563, 1796, 2035, 2064(review), 2150, 2177-2181, 2253, 2265, 2312, 2384, 2487, 2529
- C: 478, 1036
- , —, structural studies
- E: 729

## Proteins, complex mixtures and incompletely specified proteins

L: 495, 1521, 1522, 1526, 2620, 2621, 2623, 2680  
 E: 288-300, 869-872, 874-876, 878, 879, 1592, 1593, 1596, 1601, 1603, 1604, 1955  
 C: 757

## —, —, structural studies

L: 418, 423  
 E: 669, 1592

## Psychostimulants

L: 779, 798, 803, 819, 1871, 1890, 1974, 1976, 4042, 4046, 4050, 4060, 4083  
 G: 389, 405, 411, 413, 417, 746, 795, 806, 809, 811, 814, 815, 1245, 1248, 1250, 1252, 1253, 1256, 1819, 1837, 1854, 1863  
 P: 836, 1156, 1158  
 C: 101, 268, 517, 519, 788, 1127, 1129

## Purine alkaloids (xanthines)

L: 585, 594, 1637, 2727, 2935, 2946, 3291, 3783, 3787, 4078  
 P: 226, 754  
 C: 112, 215

## Purines, pyrimidines, nucleotides, nucleosides

L: 562-573, 1595-1615, 2696-2712, 3744-3764  
 G: 305, 744, 745, 1701  
 P: 141, 142, 428-434, 737-743, 1085-1089  
 E: 406-417, 961-986, 1672-1694, 2298-2311  
 C: 185-189, 460-464, 764-772, 1040-1046

## —, reviews

L: 985, 1032, 1601  
 P: 1094  
 E: 616, 1222, 1966, 2306  
 C: 308, 562, 912, 916, 1044, 1045

## —, techniques

L: 62, 563, 565, 566, 569, 571, 572, 1286, 1600, 1612, 1614, 2203, 2697, 2699, 2700, 2702, 2703, 2712, 2754, 2780, 2874, 3200, 3749, 3752-3754, 3758, 3763  
 G: 744, 745  
 P: 142, 740, 914  
 E: 410, 2540  
 C: 461, 462, 770, 772, 895, 928, 1042, 1135

## —, analogues of purines, pyrimidines, nucleotides and nucleosides (fluoro ...)

L: 564, 567, 570, 573, 892, 1597-1599, 1931, 2707, 2977, 2985, 2998, 3002, 3747, 3750, 3758, 3760, 3762, 3815  
 G: 305  
 P: 258, 737, 1085, 1086  
 E: 409, 984  
 C: 188, 464, 495, 656, 841

## —, applications, non-biological

L: 568, 1613, 2710, 3746, 3751, 3756, 3759, 3764  
 G: 37, 1701  
 P: 428, 431, 433, 434, 741, 743, 1088, 1089  
 E: 406, 407, 411, 416, 978, 1677, 2298, 2300, 2302, 2309  
 C: 185, 766, 771

## —, —, microorganisms

L: 1603, 1611, 2701, 2711, 3748, 3841  
 P: 738, 1087

## —, —, plants

L: 3755  
 C: 463

## Purines, pyrimidines, nucleotides, nucleosides, applications, animal material

L: 570, 1598, 1605, 1609, 1610, 1615, 2312, 2696, 2704, 2707, 2708, 2712, 3744  
 P: 739, 742  
 E: 2299  
 C: 187, 189, 768, 769, 1046

## —, —, food products

L: 1595, 2705

## Pyrane derivatives

C: 851

## Pyrazines

G: 29, 1149, 1286  
 see also Diazines

## Pyrethrins (and other natural insecticides)

L: 2848, 3945  
 G: 353, 355, 783, 787, 1196, 1479, 1778, 1783, 1784, 1786, 1790, 1792, 1793  
 P: 188

## Pyridine and piperidine derivatives

L: 604, 612, 613, 1086, 1531, 1648-1650, 2192, 2739, 3324  
 G: 1861  
 P: 453, 764, 765, 1097, 1098  
 E: 1944  
 C: 217(review), 490, 491, 651, 1097

## —, carboxylic acids

L: 1647  
 G: 786  
 see also Nicotinic acid and derivatives

## Pyridoxine, see Vitamins, B group

## Pyrimidines, see Purines, pyrimidines, nucleosides, nucleotides

 $\gamma$ -Pyrone derivatives, see Flavonoids and  $\gamma$ -pyrone derivatives

## Pyrroles, pyrrolidines and pyrrolidones

L: 107, 1259, 1383, 1656, 2734  
 P: 146

see also Bile pigments; Porphyrins and metalloporphyrins

## Pyrrolizidine and pyrrolizide alkaloids

L: 1624, 1630  
 P: 150, 447

## Q

## Quinazolines

L: 2905

## Quinoline and isoquinoline alkaloids

L: 597, 2730, 3780, 3784, 3785  
 G: 307  
 P: 753, 1093  
 E: 2539

## Quinolines and isoquinolines

L: 98, 340, 604, 2742, 2743, 3151  
 G: 749, 1404, 1713, 1899  
 P: 766, 841  
 C: 217(review)

## Quinolizidine alkaloids

L: 1635, 2731, 2732  
 P: 748, 759  
 C: 1094

## Quinones

L: 1656, 2297

G: 1547

P: 150, 597

## R

## Radioactive and other isotope compounds

L: 954, 2072, 2084, 2112, 2113, 3089, 4261, 4302-4305

G: 1628

P: 161, 551, 552, 601, 895, 907, 1085, 1105, 1195, 1204(review), 1205, 1206

C: 794

## Radiopharmaceuticals

L: 3230

## Rare earths

L: 2056, 2071, 4233, 4239, 4252(review)

P: 1202

C: 295

## Rauwolfia alkaloids

L: 1886

Repellents, *see* Larvicides, insecticides

## Resins, alkyd

G: 1816

## —, polyester

L: 731, 2863

G: 1203, 1571, 1805

## —, polyethylene and polypropylene glycols

L: 39, 125

G: 1817

P: 1148

## —, poly(vinyl acetate)

L: 2863

G: 1211

## —, poly(vinyl chloride)

G: 1204, 1211

## —, poly(vinyl fluoride)

G: 1201

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

## RNA, reviews

C: 738

## —, techniques

L: 574, 2713

E: 236, 418, 420, 432, 439, 441, 445, 988, 998, 1032, 1381, 1734, 1766, 1964, 2324, 2326

C: 1047

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

P: 435

E: 33, 210, 230, 236, 392, 421-431, 434, 436-438, 440, 444, 446, 447, 449, 450, 472, 521, 583, 645, 701, 845, 885, 897, 900, 962, 990-997, 999-1004, 1006, 1007, 1011, 1012, 1015, 1016, 1021, 1023, 1024, 1026-1030, 1033, 1034, 1036, 1037, 1054, 1099, 1166, 1170, 1265, 1599, 1695-1697, 1705-1707, 1710, 1713-1715, 1720, 1727, 1729, 1730, 1733, 1735-1740, 1742, 1744-1754, 1757, 1758, 1834, 1930, 2015, 2038, 2062, 2104, 2167, 2211, 2222, 2231, 2239, 2241, 2313, 2315-2320, 2323, 2325, 2328-2330, 2332, 2334, 2336, 2339, 2341, 2342,

2345, 2347, 2362, 2421, 2454, 2499, 2527

C: 191

## RNA, applications, microorganisms

E: 419, 427, 1014, 1017, 1197, 1401, 1661, 1712, 1719, 1726, 1731, 1743, 2104, 2327, 2335, 2337, 2338, 2343, 2407

## —, —, plants

E: 433, 1043, 1056, 1700, 1708, 2466

## —, —, animal material

E: 315, 426, 435, 436, 446, 448, 449, 467, 477, 522, 987, 989, 1005, 1008-1010, 1013, 1018-1020, 1022, 1025-1027, 1031, 1033, 1035, 1036, 1038, 1215, 1282, 1493, 1504, 1698, 1699, 1701-1704, 1709, 1711, 1715-1718, 1720-1722, 1724, 1725, 1727, 1728, 1732, 1735-1738, 1741, 1746, 1755, 1756, 2275, 2313, 2314, 2318, 2321, 2331, 2333, 2340, 2344, 2346, 2348

C: 190, 191

## —, —, structural studies

L: 580, 2717, 3771, 3772(review)

P: 435-437, 726

E: 106, 230, 504-515, 657, 712, 966, 989, 990, 995, 1009, 1012, 1021, 1048, 1085-1093, 1124, 1287, 1497, 1499, 1677, 1693, 1706, 1712, 1738, 1745, 1794-1806, 1906, 1919, 1991, 2093, 2316, 2333, 2342, 2400-2412, 2421, 2432, 2473, 2493

C: 476

## Rodenticides

L: 1790, 2849, 4031

## Rubber natural and synthetic (inclusive pyrolysis products)

L: 1809

G: 370, 378, 790, 1206

Rubidium, *see* Alkali metals

## S

## Saponins and sapogenins

L: 311-314, 911, 915, 916, 929, 1339, 1983, 2011, 2021, 2432-2435, 3047, 3059, 3063, 3065, 3473-3475, 4146, 4173, 4174, 4176, 4180, 4189

G: 1109

P: 117, 246, 393, 396, 516, 699(review), 700-702, 883, 888, 892, 1048, 1049, 1175

C: 710

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

## —, organic

L: 631, 2758, 3831, 3833, 3834

G: 303, 326, 327

P: 1104

C: 147

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

## Silicium compounds, inorganic

L: 3099

C: 298

## —, organic

L: 2762

G: 27, 461, 892, 980, 1801

- Silver, *see* Cations, inorganic, analytical group I and IIa
- Snake venoms, *see* Venoms, snake
- Sodium, *see* Alkali metal
- Softeners  
G: 786
- Soil pollution  
L: 660, 705, 707, 952, 1171, 1189, 1780, 2058, 2295, 2751, 2832, 2843, 3103, 3271, 3517, 3909, 3911, 3933, 3934, 3940-3942, 4209, 4211, 4234  
G: 138, 165, 185, 187, 199, 290, 323, 357, 483-485, 633, 635, 639, 642, 664, 753, 829, 830, 844, 984, 1032, 1041, 1070, 1160, 1168, 1179, 1186, 1198, 1204, 1322-1324, 1433, 1495, 1530, 1534, 1536, 1538, 1555, 1561, 1588, 1724, 1728, 1736, 1773, 1775, 1780, 1917, 1933-1935  
P: 171, 182, 183, 248-250, 461, 475, 570, 790, 791, 793, 794, 800, 908, 1056, 1201  
E: 2517, 2542  
C: 238, 360, 699, 865, 1101  
*see also* individual polluting compounds
- Spasmolytics  
L: 2959  
G: 1829
- Specific binding proteins (receptors)  
L: 245, 437, 451, 452, 487-494, 1422, 1469, 1497, 1508-1513, 2512, 2564, 2574, 2607-2615, 2664, 3384, 3659-3665, 3841  
E: 13, 32, 75, 78, 80, 82, 94, 157, 163, 172, 214, 259-286, 326, 510, 654, 655, 715, 843, 846-868, 898, 963, 965, 1022, 1198, 1288, 1298, 1299, 1347, 1381, 1382, 1388, 1394, 1421, 1503, 1514, 1530, 1544-1587, 1720, 1843, 1860, 1905, 1942, 2102, 2122, 2163, 2182-2213, 2344, 2455  
C: 182, 756
- , structural studies  
L: 1422, 1494, 3663  
E: 53, 261, 632, 668, 859
- Sphingolipids (sulfatides, gangliosides, ceramides, cerebroside)  
L: 275, 284, 286, 289, 290, 1120, 1309, 1314, 2390, 2393, 2401, 2405, 3436, 3440(review), 3443(review), 3451(review)  
G: 1100  
P: 79-81, 84, 94, 101, 104, 323, 325, 347, 353(review), 356, 357, 365, 382, 384, 627, 630, 651, 655, 656, 658, 660-662, 667, 668, 671, 672, 675, 676, 721, 984, 987, 988, 995(review), 996(review), 997, 998, 1001, 1005, 1012, 1017, 1018(review), 1021, 1022, 1030(review), 1031  
E: 26
- Stabilizers, *see* Plasticizers and stabilizers
- Starch components  
L: 229, 1264, 1269, 1271, 2326, 2332  
G: 1209, 1850  
C: 127  
*see also* Polysaccharides
- Steroid alkaloids  
L: 1629  
P: 441  
C: 1093
- Steroids  
L: 294-308, 1318-1337, 2408-2430, 3455-3472  
G: 255-266, 711-723, 1101-1109, 1645-1651  
P: 112-116, 389-392, 683-698, 1032-1047  
E: 1987  
C: 135, 708, 709
- Steroids, general techniques and theory  
L: 19, 294, 1318, 1319, 1831, 1885, 2138, 2182, 2381, 2408, 2409, 3139, 3156, 3455, 3456  
G: 255, 256, 711  
P: 112, 819, 913, 1032  
C: 66, 648, 928  
*see also* Androstane derivatives; Oestrogens; Pregnane derivatives;
- Sterols  
Sterols, reviews  
G: 264  
P: 1039, 1040
- , techniques  
L: 1289, 1333, 1334, 2425, 2428, 2779  
G: 261, 1649  
P: 392, 688, 691, 992  
E: 1987  
C: 66
- , applications, non-biological  
L: 306, 307, 1332, 1335, 3471  
G: 1646  
P: 351, 391, 647, 655, 690, 691, 694  
E: 648
- , —, biological  
L: 2415, 2426, 2427, 3470  
G: 260, 262, 263, 265, 266, 438, 720-723, 1107, 1647, 1648, 1892  
P: 332, 518, 687, 689, 1041-1047
- Stimulants, *see* Psychostimulants
- Strontium, *see* Alkaline earths
- Strychnine group  
G: 1706  
P: 878  
C: 1094
- Styrene polymers (inclusive pyrolysis products)  
L: 26, 1807-1810, 2862, 3976  
G: 366, 371, 372, 376, 792, 1351, 1802, 1809, 1818  
P: 199, 495, 496, 817, 1147  
E: 624, 1212  
C: 248, 345, 734
- Subcellular particles  
E: 1217
- Sulphatides, *see* Sphingolipids
- Sulphides (thioethers) and polysulphides  
G: 109, 311, 312, 314, 446, 482, 754, 1151, 1458, 1715, 1717, 1719, 1720
- Sulphonamides  
L: 826, 832, 834, 838, 1911, 1919, 1921, 2967, 2974, 4090  
G: 1844  
P: 507, 1120  
C: 836
- Sulphonate esters  
L: 2746  
G: 489
- Sulphones  
G: 488, 1325
- Sulphoxides  
L: 116, 620, 1804, 3236  
G: 300

## Sulphur compounds, inorganic

L: 974, 2089, 2110, 3103, 3107, 3108, 3110(review), 3114, 4285, 4290, 4294, 4299

G: 482, 873, 875, 877

C: 552, 870(review), 873

## —, organic, techniques

L: 629, 1658, 1661, 1920, 2748, 3821

G: 516, 873, 1716-1718

P: 462, 768, 769, 894, 1065, 1101

C: 285, 366, 789, 928, 960, 982, 1068

## —, —, acids and derivatives

L: 619, 624, 1659, 1660, 1662, 1826, 2744, 2749, 2856, 3401, 3816, 3817, 3819, 3822, 3823, 3825

P: 456

C: 493, 494, 581, 1098, 1099

see also Heterocyclics, sulphur

## Sulphur, elemental

L: 3103, 4300

G: 1955

C: 302

## Sulphur oxides

L: 4301

## Sunburn preventives

L: 1914

P: 848, 852

## Surfactants, emulsifiers and detergents

L: 943-947, 1070, 1077, 1413, 2042-2044, 2045(review), 3073-3076, 4212-4218

G: 234, 380, 486-489, 657, 1325, 1326, 1402, 1406, 1936

P: 251, 543, 544, 896

C: 285, 286, 494, 537, 846, 1159

## Suspensions, various

L: 122, 1479, 1810, 1812, 2051, 2398, 4224-4226

E: 1219, 2557

C: 247, 541, 543, 862, 863, 1161, 1162

## Sweeteners, artificial

L: 864, 2749, 2853(review), 2995

G: 512

C: 535, 844

## Sympathomimetics, see Adrenergic and adrenergic blocking agents

## T

## Tannins (and catechins)

L: 154, 173, 177, 179, 183, 184, 186, 187, 1188, 1637, 3001, 3060, 3291, 3323, 3325, 3326, 3336, 4141

G: 1931

## Tantalum, see Cations, inorganic analytical group III

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

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

## Terpenes

L: 315-321, 1341-1349, 2436-2440, 3476-3483

G: 267-279, 724-728, 1110-1126, 1652-1676

P: 119, 397-403, 702-709, 1050-1053

E: 1285

C: 136, 711

## —, general techniques

L: 1334, 1341, 3476, 3478

G: 1185, 1652

P: 518, 1051

## Terpenes, applications

L: 272, 315-320, 599, 1342-1346, 2046, 2436, 2438, 2439, 3062, 3264, 3477, 3479-3482

G: 267, 428, 566, 1110, 1113, 1114, 1116, 1117, 1655, 1660, 1672, 1873, 1947, 1949

P: 119, 231, 274, 397, 398, 399(review), 702-709, 844, 1043, 1050, 1052, 1053, 1188

C: 711

## —, acids

E: 1285

## —, alcohols

L: 2437, 2440, 3483, 4115, 4178, 4195

G: 268, 1111, 1112, 1115, 1125, 1259, 1653, 1656, 1657, 1871, 1874

## —, resins

G: 1849, 1950

## Tetracyclines

L: 656, 660, 1703, 1725, 1729, 2782, 2797, 2816, 2827

P: 164, 472, 779, 786

C: 229, 1105

## Textile dyes (including bleaching agents)

P: 123(review), 807, 808, 1059

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

## Thiamine, see Vitamins, B

## Thiazoles, isothiazoles and thiazolones

L: 625, 627, 3819

## Thiocyanates and isothiocyanates

L: 3685

## Thiols

L: 115, 372, 374, 622, 2745, 3162, 3495, 3519

G: 1458

C: 145, 220-222

## Thiophenes

G: 385, 751, 921, 1717

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

## Thyroglobulins and related proteins

L: 1426

## Thyrostatics

L: 3000, 3028

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

## —, organic

L: 635, 1670, 2759, 2761

G: 316, 323-325, 757, 759, 760, 1156, 1159, 1160, 1162, 1727, 1729-1731, 1733-1735, 1748

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

## Toad venoms, see Venoms, other

## Tobacco alkaloids

L: 589(review), 1353, 1638, 2725, 2726, 2872, 3781, 3789, 3794

P: 146, 745

## Tocopherols, see Vitamins, E

## Toxicological (and forensic) analysis, reviews and books

L: 3039

P: 5, 512, 820, 856, 862, 863, 865, 1171

C: 849, 903, 1149

## —, general techniques

L: 902, 926, 3460, 4161, 4162

G: 205, 352, 404, 405, 407, 409, 412, 416, 418, 421, 422, 426, 563, 612, 852, 1016



- P: 857, 858, 860, 861, 864  
 C: 850
- Toxicological (and forensic) analysis, applications  
 L: 94, 803, 809, 819, 899-901, 903-906, 1660, 1974-1980, 2050, 2563, 3038, 3040, 3041, 3058, 3459, 3913, 3920  
 G: 122, 168, 182, 200, 280, 341, 384, 406, 410, 413-415, 417, 419, 420, 423-425, 507, 511, 644, 653, 693, 806, 807, 809-814, 816, 817, 1021, 1067, 1068, 1142, 1143, 1195, 1197, 1225, 1243, 1245, 1247, 1249-1254, 1256, 1257, 1314, 1341, 1552, 1581, 1677, 1706, 1727, 1782, 1794, 1820, 1825, 1830, 1831, 1837, 1853-1862, 1864-1868, 1870, 1891, 1979  
 P: 226, 227, 854, 900, 928, 937, 1057, 1168-1170, 1200  
 E: 145, 182, 914  
 C: 200, 267, 278, 279, 1130, 1147  
 see also Proteins of blood, serum and blood cells
- Toxins (non-proteinous or unidentified)  
 L: 904, 1120, 1402, 1404, 1980, 3036, 3041  
 P: 859, 1058  
 E: 1949, 2546  
 C: 849(review), 1149(review)  
 see also Aflatoxins; Mycotoxins
- , proteinous  
 L: 1402, 1404, 2551, 2563, 2593, 2595, 3618  
 E: 813, 1443, 2545  
 see also Proteins of glands and gland products; Venoms; individual enzyme types
- Tranquilizers (anxiolytics)  
 L: 777, 783, 805, 815, 816, 822, 1866, 1876, 1877, 1880, 1890, 1901, 2912, 2930, 2937, 2942, 2950, 2958, 2960, 2964, 4077, 4081  
 G: 387, 392, 398, 669, 804, 1231  
 P: 214, 215(review), 558, 830, 839, 1154  
 C: 364, 528
- Transferases, transferring one atom groups (methyl-, hydroxy-, -formyl-, carbonyl-, carbamoyl-, amidine) and related transferases (E.C. 2.1.--)  
 L: 507, 517, 1550, 2646, 3698  
 E: 324, 1291, 2235, 2241
- , —, structural studies  
 G: 1132
- , transferring aldehyde or ketonic residues (E.C. 2.2.--)  
 E: 323
- , transferring acyl- and aminoacyl groups (E.C. 2.3.--)  
 L: 2649, 3697, 3700  
 P: 1084(review)
- , transferring glycosyl residues (hexosyl and pentosyl transferases) (E.C. 2.4.--)  
 L: 508, 512, 2648, 2650, 2651, 3370, 3703  
 E: 317-320, 890, 1614, 1617, 2237, 2239
- , transferring alkyl or aryl groups (E.C. 2.5.--)  
 L: 509, 2647, 2652, 3699, 3701, 3702  
 E: 315, 1613, 1616, 2240
- , transferring nitrogenous groups (E.C. 2.6.--)  
 L: 510  
 E: 314, 316, 1615
- , —, structural studies  
 L: 2558
- , transferring phosphorus containing groups (E.C. 2.7.--)  
 L: 519-522, 1552-1559, 2653-2657, 3704-3710  
 E: 17, 71, 79, 111, 308, 325-348, 355, 412, 416, 429, 456, 487, 520, 710, 827, 891-906, 1088, 1092, 1377, 1391, 1431, 1500, 1583, 1618-1633, 2056, 2222, 2234, 2242-2257, 2432
- Transferases, transferring phosphorus containing groups (E.C. 2.7.--), structural studies  
 L: 417  
 E: 54, 111, 329, 336, 899, 2252
- , transferring sulphur containing groups (E.C. 2.8.--)  
 L: 516, 518  
 C: 183
- , activity measurements  
 L: 1551  
 P: 168  
 E: 335
- Triazines and triazanes  
 L: 1651, 1652, 2740  
 G: 1011
- Triazoles  
 L: 615  
 P: 159
- Tropine alkaloids  
 L: 593, 595, 596, 1622, 1628, 1634, 1640, 2724  
 G: 306, 1144  
 P: 440, 747  
 C: 331, 517, 788
- Trypsin inhibitor (antitrypsin)  
 L: 2617-2619, 2624, 3668, 3672  
 E: 200
- Tuberculostatics  
 L: 827, 1908, 1909, 2968, 3004, 3902, 4096
- Tungsten, see Cations, inorganic, analytical group IIb
- ## U
- Ubiquinones (coenzyme Q)  
 L: 195, 2297, 2298, 3331  
 P: 1119
- Uranium, see Actinides and uranium
- Urea and urea derivatives  
 L: 1903, 3507, 3508  
 G: 793, 1969  
 P: 1064(review), 1065  
 see also Thiourea
- Urethanes and polyurethanes (including pyrolysis products)  
 G: 34, 379, 1804  
 P: 497
- Uric acids  
 L: 614(review), 1610  
 C: 219(review), 656
- Uricosuric drugs  
 L: 2907, 4140
- ## V
- Vanadium, see Cations, inorganic, analytical group IIb
- Vasoconstrictors  
 L: 2908, 3669, 4035  
 G: 384

## Vasodilators (including coronar vasodilators)

- L: 1847, 2880, 2887, 2900, 2910, 4013, 4018, 4021, 4027, 4041
- G: 1224, 1827
- P: 206
- C: 820, 1123

## Venom, snake

- L: 476, 478, 1497-1500, 2502, 2588, 2589, 2592, 2597-2599, 3643, 3644, 3647, 3653
- E: 811, 814, 2166

## —, other

- L: 479, 481, 484, 3654
- see also Proteins, of glands and gland products; Toxins, proteinous; individual enzyme types

## Vinca alkaloids

- L: 587, 592, 2728

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

- L: 640-655, 1674-1696, 2766-2781, 3838-3859
- G: 1739-1741
- P: 162, 163, 465, 466, 777, 778, 1110-1119
- E: 601, 602, 1210
- C: 227, 498, 796-800

## —, reviews and books

- L: 1691, 2777
- C: 799

## —, techniques for fat soluble vitamins

- L: 646, 1679, 1689, 2779, 3855, 3857

## —, techniques for water soluble vitamins

- L: 143, 1689, 2774, 2777(review), 3852, 3855
- G: 1740
- P: 163

## —, A group (including synthetic retinoids)

- L: 640, 643, 653, 719, 722, 1675, 1677, 1682, 1684, 1694, 1696, 1797, 1799, 1801, 1802, 2766, 2768, 2769, 2773, 2776, 2800, 2810, 3003(review), 3842, 3843, 3845, 3846, 3849, 3858, 3959, 3960, 3962, 3964, 3966
- G: 267, 273, 1050, 1167
- P: 196, 490(review), 493, 777, 778, 1110(review), 1141, 1142(review)
- E: 601

see also Pigments, natural (and fluorescent substances)

—, B<sub>1</sub>

- L: 1688, 3850, 3854, 3856

—, B<sub>2</sub> and other flavins

- L: 645, 655, 1688, 3854
- P: 1114(review)
- C: 798

—, B<sub>6</sub>

- L: 1688, 1693, 1695, 2770, 3854
- P: 1118(review)

—, B<sub>12</sub> group (Cobalmin)

- L: 1685, 3859
- P: 466, 1112(review)
- C: 797

## —, biotin group

- L: 1692
- G: 1739
- P: 1116(review)

## Vitamins, C group

- L: 641, 2946, 3291, 3838, 3847, 3848
- P: 162, 202, 1115(review)
- C: 797

## —, D group

- L: 647, 652, 1682, 1690, 2766, 2771, 2778, 3853
- G: 273, 328, 438, 761, 1166, 1642, 1649

## —, E

- L: 644, 649, 650, 1674, 1678, 1680-1682, 1686, 1696, 2766, 2781, 2886, 3842, 3851
- G: 1167, 1741
- P: 1113(review)
- E: 602
- C: 498

## —, K group

- L: 654, 1683, 3839
- P: 1111(review)

## Volatile organic compounds (VOC)

- G: 90, 129, 453, 455, 456, 459-461, 464, 469-473, 477, 479, 480, 483, 517, 619, 641, 828, 836-844, 987, 1000, 1291, 1297, 1299, 1300, 1303-1305, 1309, 1311, 1316, 1320, 1463, 1471, 1477, 1480, 1507, 1549, 1909, 1910, 1918, 1920, 1922, 1928, 1929, 1971

## Volatiles, flavours, odours, see Organoleptics

## W

## Warefare agents

- G: 73, 514, 1165, 1722, 1736
- C: 601, 791, 1176

## Water

- G: 876

## Water analysis and pollution

- L: 149, 150, 157, 158, 196, 351, 358, 629, 635, 636, 697, 705, 707, 710-713, 720, 940-942, 946, 947, 969, 972, 980, 1039, 1172, 1173, 1175, 1180, 1200, 1233, 1246, 1287, 1303, 1327, 1350, 1404, 1662, 1761, 1765, 1779, 1931, 2031-2036, 2038-2041, 2058, 2061, 2064, 2067, 2068, 2079, 2080, 2083, 2087, 2093, 2097, 2102, 2103, 2105, 2106, 2108, 2237, 2251, 2253, 2293, 2447, 2448, 2740, 2746, 2761, 2833, 2834, 2839, 2842, 2845, 2863, 3071-3074, 3084, 3095, 3099, 3102, 3104, 3107, 3109, 3111, 3285, 3363, 3411, 3418, 3455, 3823, 3908, 3909, 3913, 3915, 3918, 3923, 3927, 3930, 3935, 3939, 4123, 4205-4211, 4213-4217, 4237, 4249, 4250, 4253, 4259, 4264, 4272, 4273, 4281, 4283, 4287, 4294
- G: 56, 133, 155, 170, 173, 174, 194, 198, 289, 290, 316, 320, 324, 354, 356, 357, 468-478, 480-482, 488, 506, 619, 649, 652, 662, 663, 665, 699, 723, 759, 769, 770, 785, 829, 830, 839-843, 863, 1020, 1022, 1025, 1039-1043, 1048, 1064, 1076, 1088, 1105, 1131, 1134, 1158, 1160, 1168, 1170, 1188, 1191, 1192, 1194, 1292, 1302-1321, 1328, 1474, 1475, 1481, 1498, 1539, 1543, 1549, 1555, 1558, 1575, 1579, 1589, 1633, 1683, 1713, 1731, 1737, 1738, 1742, 1747, 1751, 1757, 1758, 1760, 1765, 1772, 1774, 1779, 1780, 1787, 1788, 1800, 1915-1932, 1941, 1980
- P: 247, 348, 540, 542, 547, 792, 894-896, 903, 923, 1056, 1168, 1203
- E: 1847, 2501

C: 241, 298, 301, 305, 346, 494, 553, 556, 654, 683, 702, 856,  
859, 961, 977, 1098, 1109, 1114, 1158

see also individual polluting compounds

Water analysis and pollution, reviews

L: 706, 2030, 2037, 3907, 3928, 4230

P: 457, 478, 541

Waxes

G: 153, 253, 492, 627, 692, 1349, 1559, 1573, 1849, 1946

P: 304

## X

Xanthates

L: 621

Xanthine alkaloids, see Purine alkaloids

X-ray contrast media

L: 876, 883, 1953

## Z

Zinc, see Cations, inorganic, analytical group III

Zirconium, see Cations, inorganic analytical group III