

## 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 (C), Gas chromatography (G), Planar chromatography (P) and Electrophoresis (E) were numbered separately. Therefore the respective shortening should direct the reader to one of the techniques first before looking for a particular number (identical numbers occur under different techniques). Please note that this Index refers to the entry numbers in the Bibliography Section, J. Chromatogr. A, Vols. 783 and 784.

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 C: 58, 1553, 2109, 2622, 2858, 4067, 4078  
 P: 302, 422  
 —, —, plants  
 C: 253, 267, 1561, 2871, 2885, 4416  
 G: 646, 889  
 E: 1055  
 —, —, animal material  
 C: 250, 254, 256, 715, 759, 1549, 1556, 1566, 4058, 4061, 4071, 4072, 4094  
 G: 642, 1584  
 P: 574, 576  
 —, derivatives, acids and lactones  
 C: 252, 260, 269, 1551, 1565, 4055, 4068, 4073, 4078, 4079  
 E: 197, 207, 1060, 1063  
 —, —, alcohols  
 C: 1556  
 —, —, amino sugars  
 C: 253, 1566, 1577, 2153, 2866, 2881, 3236, 4057, 4067, 4079  
 G: 666  
 P: 574, 576  
 E: 1063  
*see also* Glycosaminoglycans  
 —, —, deoxy  
 C: 1551, 4079  
 E: 2755  
 —, —, phosphates, *see* Phosphorus compounds, organic  
 —, —, sulphur containing  
 C: 1566  
 —, —, other  
 G: 1071  
 Carbon  
 G: 684, 1085  
 — oxides  
 G: 114, 997, 1001, 1004, 1307, 1359, 1361, 1365, 1368, 1784, 1877, 1879

Carbonyls, *see* Oxo compounds

Carboxylic acids

C: 312-343, 1601-1620, 2896-2934, 4105-4119

G: 213-237, 643-666, 1072-1089, 1585-1606

P: 32-36, 221-229, 429-435, 578-582

E: 236-238, 1075-1083, 1915-1921, 2770-2777

—, reviews and books

C: 1348

G: 223, 1112

—, general techniques and theory

C: 81, 312, 313, 317, 319, 322, 323, 325, 326, 328, 336, 338, 1150, 1233, 1349, 1353, 1362, 1409, 1483, 1489, 1602, 1604, 1606-1608, 1612, 1618, 1629, 2413, 2527, 2703, 2722, 2844, 2850, 2896-2901, 2903, 2905-2907, 2912-2914, 2916, 2918, 2921, 2922, 2930-2934, 2948, 3782, 3838, 3839, 4070, 4107, 4108, 4129, 4827

G: 915

P: 32, 34, 175, 197, 222, 224, 225, 284, 394, 431, 434, 580, 582

E: 12, 236, 238, 919, 1000, 1077-1080, 1082, 1083, 1819, 1828, 1881, 1915, 1916, 1918, 1919, 2557, 2588, 2591, 2638, 2684, 2688, 2723, 2773, 2775, 3255, 3256

—, higher fatty acids

C: 194, 331-334, 337, 340, 342, 370, 373, 1605, 1609-1611, 1615, 1620, 2902, 2904, 2909, 2910, 2924, 2926, 2927, 2929, 2938, 2945, 2949, 2954, 3012, 3226, 4110-4113, 4115, 4335, 4734

P: 33, 35, 36, 43, 57, 59, 188, 223, 227, 228, 367, 429, 435, 579, 581

E: 1075, 1920, 1921, 2770

—, —, simple esters

C: 2928

P: 224, 432, 433

—, lower fatty acids

C: 1613, 3638, 4118

E: 959

—, non-volatile, techniques

C: 2927

E: 1083

—, —, applications

C: 314, 315, 318, 320, 325, 1166, 1552, 2851, 2900, 2915, 2925, 3850, 4109, 4119

G: 657

E: 237, 1081, 1917, 2771, 2772, 2774, 2777, 3256

—, —, lactones

C: 2833

G: 222, 223, 1057, 1444

—, oxo acids

C: 2927

G: 1074, 1593, 1594, 1606

E: 1083

—, cyclic acids, techniques and theory

C: 248, 316, 321, 324, 327, 346, 421, 1319, 1442, 1532, 1603, 1614, 1616, 1617, 2691, 2788, 2908, 2919, 2920, 3387, 4116, 4152

G: 16, 102, 224, 604, 1045, 1075

P: 226, 415, 578

E: 897, 1053, 1076, 2708, 2721, 2776

Carboxylic acids, cyclic acids, applications, non-biological

C: 330, 1601, 1619, 4114

G: 70, 219, 229, 236, 476, 518, 644, 647, 658, 1081, 1084, 1348, 1386, 1587, 1600, 1602, 1843

P: 229

E: 2541, 3246

—, —, —, microorganisms

C: 1001

G: 220, 221, 225, 649, 659, 663, 664, 666, 1079, 1086, 1316, 1597

—, —, —, plants

C: 222, 2917, 4105, 4745

G: 213, 214, 217, 232, 235, 646, 661, 885, 1057, 1073, 1074, 1078, 1083, 1087, 1588, 1601

P: 221, 430, 672

E: 2540

—, —, —, animal material

C: 421, 691, 1699, 1731, 3005, 4117, 4724

G: 230, 421, 655, 656, 660, 665, 726, 839, 1076, 1127, 1585, 1590, 1598, 1603, 1604

E: 237, 3174

—, —, —, food products

C: 214, 339, 343

G: 215, 226-228, 231, 233, 234, 237, 641, 643, 645, 652-654, 662, 844, 1072, 1088, 1092, 1283, 1349, 1588, 1589, 1591, 1594-1596, 1599, 1606, 1612

*see also* Food analysis

Cardiac depressants

C: 1015

E: 869, 1664, 3225

Cardiac glycosides, techniques

C: 2324, 2984

P: 136, 467

—, —, applications, biological

C: 1668, 1670, 2983, 2985

P: 77, 271

Cardiotonics (cardiostimulants)

C: 1017, 1025, 3566, 3567, 4583

G: 386, 399, 814

E: 869, 3215

Catechins and tannins, *see* Tannins

Catecholamines, reviews

C: 3007, 4171

—, techniques

C: 422, 423, 425, 426, 1701, 1718, 3008

E: 166, 274, 276, 1109-1111, 1826, 2792

—, applications

C: 427, 428, 1697, 1699, 1700, 1702, 1703, 3005, 3006, 4162, 4169, 4170, 4172, 4173, 4175-4177

G: 1642

P: 472, 473, 614

E: 1942, 2640

—, metabolites

C: 424, 428, 3005, 3009, 3598, 4174, 4177

E: 3174

Cations, inorganic

C: 1210-1228, 2549-2583, 3787-3827, 4790-4812

P: 153-155, 381-385, 547-549, 686-688

E: 908-918, 1717-1723, 2571-2580, 3271-3281

## Cations, inorganic, reviews and books

C: 1219, 2575, 2764, 3793, 3803, 4751, 4766, 4812  
 P: 166, 380  
 E: 921, 2573, 2582, 3280

## —, —, techniques

C: 71, 110, 145, 1216, 1223-1226, 1328, 2553, 2556, 2562, 2566, 2569-2571, 2574, 2576-2579, 2581, 2698, 3770, 3787, 3790-3792, 3796, 3798, 3800, 3802, 3804, 3807, 3809-3812, 3814, 3815, 3819, 3821-3823, 3826, 3827, 3962, 4769, 4791-4793, 4795, 4799, 4804, 4806, 4809  
 P: 155, 381, 384, 549, 560, 687  
 E: 73, 908, 909, 911, 913, 914, 916, 1704, 1706, 1719, 1721, 2540, 2571, 2580, 2592, 3253, 3259, 3271, 3274, 3275, 3278, 3279

## —, —, analytical group I and IIa (Ag, Bi, Cd, Cu, Hg, Pb, Pd, Tl)

C: 1213, 1218, 1220, 2552, 2558, 2577, 2580, 2589, 3795, 3952, 4796

G: 312

P: 153-155, 547-549, 686

E: 1717, 2575, 2579, 3277, 3281

## —, —, analytical group IIb (As, Mo, Sb, Se, Sn, Tc, Te, V, W)

C: 1212, 1215, 1217, 1220, 1228, 2113, 2560, 2561, 2565, 2568, 2577, 3404, 3407, 3805, 3813, 3825, 4794, 4797, 4805, 4807

G: 1145, 1154

P: 547, 549

E: 917, 1722, 2574, 2577, 3272, 3276

## —, —, analytical group III (Al, Be, Co, Cr, Fe, Ga, Mn, Nb, Ni, Ta, Th, Ti, Zn, Zr)

C: 940, 1210, 1213, 1214, 1218, 1220, 1221, 1224, 1327, 1466, 2554, 2557, 2564, 2577, 2582, 2589, 3788, 3789, 3794, 3797, 3799, 3813, 3816, 4791, 4796, 4797, 4800, 4803, 4807, 4808

P: 382, 385, 547, 549, 686

E: 51, 918, 1718, 2572, 3276, 3281

see also Actinides and uranium; Alkali metals; Alkaline earths; Platinum metals and gold; Rare earths

## Cells, viruses and microorganisms

C: 1498, 2547, 2548, 4786, 4789

E: 902, 903, 1711, 1714, 1715, 2389, 2562, 2566-2569, 3122, 3163, 3248, 3265-3268

## —, metabolites and taxonomical studies

G: 659, 663, 1079, 1597

E: 2415, 2539, 2564

## Cellulose acetate see Polysaccharides and their constituents

## Cephalosporins

C: 856, 858, 889, 893, 903, 2159, 2169, 2170, 2172, 3439, 3445, 3454, 4471, 4474

P: 306, 310

E: 842, 1627, 2488, 2491

## Ceramides, see Sphingolipids

## Cerebrosides, see Sphingolipids

## Chelates, see Coordination compounds

## Chemotherapeutics

C: 4671, 4711

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## Chloramphenicol and related compounds

C: 869, 3436

## Chloroplast pigments

C: 937, 940, 946, 1179, 2242, 2246, 3480, 3511, 3512, 3950, 4531-4533

## Choline and derivatives

C: 432, 3010, 3011

E: 277

## Cholinergic and cholinergic blocking substances

C: 1043, 1060, 2331, 2347, 3639, 4632, 4636, 4707

P: 331, 333, 652

E: 2516

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

## Chromones

C: 236

P: 212

E: 1888

## Chromoproteins and metalloproteins

C: 600-617, 682, 1878-1888, 1895, 3130(review), 3157, 3201-3216, 3234, 3900, 4296-4305

E: 464-479, 1268-1272, 1988, 2006, 2143-2151, 2700, 2896, 2927-2937

## —, structural studies

C: 498, 1793, 1794, 1799, 1803, 1804, 3116, 3118, 4238

E: 472, 477, 1141, 1975

## Cinchona alkaloids

C: 4410

## Clinico-chemical applications (endogenous compounds in body fluids)

C: 250, 305, 308, 437, 438, 452, 580, 582, 808, 844, 854, 990, 1171, 1221, 1457, 1537, 1552, 1593, 1643, 1689, 1690, 1709, 1711, 1722, 1732, 1733, 1819, 1917, 1997, 2141, 2143, 2501, 2575, 2598, 2810, 2886, 2892, 2912, 2925, 2964, 2967, 2973, 2974, 2995, 3002, 3005, 3009, 3019, 3028, 3035, 3042, 3060, 3069, 3091, 3202, 3203, 3209-3211, 3273, 3303, 3318, 3331, 3336, 3366, 3369, 3432, 3433, 3816, 3823, 3824, 3829, 4051, 4058, 4117, 4143, 4172, 4173, 4183, 4197, 4198, 4275, 4301, 4462, 4467, 4470, 4752-4754, 4810, 4826

G: 368, 1065, 1099, 1330, 1617, 1655, 1788

P: 284, 543

E: 54, 205, 226, 227, 229, 237, 256, 261, 434, 447, 518, 553, 582, 788, 799, 819, 840, 857, 861, 893, 894, 1062, 1067, 1083, 1094, 1237, 1324, 1553, 1571, 1572, 1576, 1583, 1584, 1699, 1926, 1930, 1946, 2098, 2101, 2107, 2143, 2145, 2209, 2210, 2235, 2238, 2267, 2274, 2308, 2313-2315, 2416, 2427, 2430, 2437, 2449, 2456, 2542-2553, 2772, 2783, 2896, 2912, 2932, 2962, 3037, 3130, 3133, 3140, 3144, 3161, 3247-3250

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## —, reviews and books

C: 3760, 3761, 3855, 4420, 4554, 4751

G: 796

E: 436, 892, 1697, 1698, 1700, 2511, 2601, 2605

## —, profiling body fluids

C: 1516

G: 139, 204, 278, 383, 390, 421, 423, 595, 642, 675, 677, 679, 686, 705, 710, 838-840, 1046, 1081, 1104, 1120, 1232, 1276, 1279-1282, 1556, 1570, 1603, 1615, 1638, 1789, 1790

## Coal analysis

C: 2809

G: 171, 466, 575, 651, 1834, 1856

## Coal tar and bitumens, hydrocarbons in

C: 2807, 4770(review)

G: 601, 1332, 1353, 1357, 1820, 1855

P: 382, 571

- Cobalamins, *see* Vitamins, B<sub>12</sub> group
- Cobalt, *see* Cations, inorganic, analytical group III
- Cocciostatics  
 C: 1097, 2435, 4702  
 G: 817
- Colchicum alkaloids  
 C: 2084
- Contraceptives  
 E: 3236  
*see also* Steroids
- Coordination compounds  
 C: 830-832, 2115, 2116, 2118, 2119, 2561, 3400, 3409, 3410, 3788, 4449-4451, 4807  
 G: 304, 305, 1154, 1674, 1717  
 P: 98, 497  
 E: 1121, 1624, 1625, 2485-2487, 2587, 2806, 3182, 3183, 3200, 3278, 3279, 3281, 3283  
*see also* Amino acids, metal complexes
- , reviews  
 C: 829, 2120  
 E: 3181
- Copper, *see* Cations, inorganic, analytical group IIa
- Coronar vasodilatans, *see* Vasodilatans
- Cosmetics  
 C: 444  
 G: 1077, 1121
- Coumarins  
 C: 232, 234, 235, 1530, 1532, 2706, 2707, 3373, 4167  
 P: 17, 679  
 E: 1889, 2749
- Crude oil and petroleum analysis  
 C: 205, 1202, 1499, 1510, 4019-4021  
 G: 1, 148, 150, 173-177, 186, 287, 467, 480, 488, 489, 1037, 1038, 1089, 1134, 1140, 1308, 1320, 1322, 1325, 1327-1329, 1337, 1344, 1350, 1351, 1354, 1355, 1551, 1552, 1578, 1833, 1847, 1851, 1854, 1856, 1871  
 P: 568  
 E: 885  
*see also* Hydrocarbons, complex mixtures
- Cyanates, *see* Halides and other inorganic halogen compounds
- Cyanides, *see* Halides and other inorganic halogen compounds
- Cytokinins  
 C: 3372  
 E: 2478
- Cytostatics  
 C: 232, 292, 821, 859, 1111-1122, 1123(review), 1124, 1125, 1169, 1672, 1989, 2153, 2437-2452, 2467, 2746, 2967, 3461, 3684-3710, 3759, 4398, 4473, 4497, 4518, 4668-4681  
 G: 100, 709, 1259, 1260  
 P: 273, 345, 530, 536, 599  
 E: 636, 879, 880, 1613, 1676, 2821, 3236  
*see also* Antitumor antibiotics; Purines, analogues of purines, pyrimidines, nucleotides, nucleosides

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- Desficiens, *see* Antibacterials
- Detergents, *see* Surfactants, emulsifiers and detergents
- Diagnostics  
 C: 1132, 2882, 3721  
 G: 840, 1252  
 P: 531
- Diazines  
 C: 3376, 3378  
 P: 8
- Dioxans and dioxins  
 C: 4017  
 G: 147, 200, 202, 608, 633, 1028, 1053, 1056, 1058, 1513, 1541, 1568-1572, 1830
- Disulphides  
 E: 1622
- Diuretics  
 C: 1023, 1134, 2358, 2483, 2484(review), 2772, 3560, 3735, 3741, 4595, 4599, 4709  
 G: 802, 1234  
 P: 65  
 E: 1679, 1681, 1682(review), 3239
- DNA, reviews  
 E: 713, 715, 726, 747, 749, 763, 817, 1497, 1521, 1531, 2599
- , techniques  
 C: 512, 552, 784-787, 1268, 2066, 2067, 2069, 2070, 3348, 4407, 4408  
 E: 17, 26, 35, 131, 183, 358, 650, 665, 681, 682, 685-689, 691-694, 698, 702, 703, 706-709, 711, 712, 714, 716, 717, 720, 722-725, 729-731, 734, 735, 739, 740, 742, 744-746, 748, 750, 751-753, 755-762, 803, 804, 938, 982, 1005, 1313, 1475, 1498, 1500-1502, 1505, 1511-1514, 1519, 1520, 1522, 1523, 1525, 1527, 1528, 1532-1536, 1541-1544, 1554, 1602, 1755, 2351, 2365-2368, 2372-2374, 2378, 2380, 2382, 2383, 2385, 2387, 2389, 2390, 2394, 2397-2399, 2403, 2404, 2660, 2661, 2691, 2696, 3080, 3082-3084, 3087, 3089, 3093, 3094, 3096, 3100, 3103, 3105, 3107, 3110, 3120, 3128, 3131, 3135
- , applications, non-biological  
 C: 1809, 3345, 4163  
 E: 660, 664, 667, 683, 684, 695, 700, 701, 704, 705, 727, 732, 741, 754, 1273, 1418, 1440, 1452, 1468, 1499, 1506, 1517, 1524, 1537, 1538, 1540, 1546, 2233, 2240, 2258, 2355, 2369-2371, 2375, 2376, 2379, 2384, 2392, 2393, 2395, 2401, 2405, 2417, 2464, 2855, 3011, 3042, 3049, 3071, 3081, 3085, 3092, 3095, 3097, 3098, 3108, 3109, 3111, 3129, 3138, 3139
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 E: 690, 697, 699, 719, 723, 728, 733, 736-738, 743, 763(review), 764, 1503, 1504, 1507, 1514, 1515, 1528, 2317, 2368, 2369, 2371, 2377, 2381, 2400, 2402, 3086, 3088, 3090, 3091, 3099, 3101, 3102, 3104
- , —, plants  
 E: 1472, 1516
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 E: 691, 696, 706, 710, 718, 721, 724, 1423, 1483, 1506, 1510, 1518, 1526, 1529, 1530, 1539, 1553, 2027, 2258, 2385, 2386, 2388, 2391, 2396, 2397, 2464, 2542, 3045, 3069, 3106
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- G: 280, 1651  
E: 1508, 1509, 1545
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C: 788, 2072, 2073, 3350, 4753, 4754  
G: 281, 715, 1133, 1518  
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- , complex mixtures of DNA and RNA and DNA-RNA hydrids  
C: 2074, 2075, 3351  
E: 748, 824, 902, 933, 1206, 1273, 1607-1611, 2428, 2466-2472, 3107, 3166, 3167, 3168(review)
- Drug monitoring and pharmacokinetics studies, reviews and books  
G: 96, 308, 371, 391, 676, 794, 795, 797, 836, 841, 842, 1136, 1243, 1264, 1775  
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- Drugs of abuse (general papers)  
C: 1143, 2411, 2493, 3608, 3636, 3647, 4601  
G: 410, 414-416, 793, 824, 1272, 1764, 1778-1780, 1782  
E: 1685, 1687, 3242  
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C: 281, 453, 985(review), 1126, 1127, 1129, 2371, 2453, 2454, 2456-2458, 2461, 2471, 2473, 2481, 3714-3717, 3719, 3720, 3727, 3730, 3732, 3734, 4139, 4182, 4623, 4682, 4686, 4688, 4696, 4701, 4703, 4708, 4712, 4717, 4719, 4723, 4727, 4730  
G: 75, 719, 819, 831, 1226, 1756, 1772  
P: 123, 347, 348, 533, 578, 658  
E: 175, 883, 1677, 2532, 3036, 3241
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- Dyes, natural, see Pigments, natural
- Dyes synthetic, theory and techniques  
C: 2238, 2239, 4525, 4526, 4732  
P: 322, 510-512, 638  
E: 155, 2496, 3207
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C: 933, 935, 2240, 2241, 2677, 3507, 3974  
P: 111, 510, 561, 637  
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C: 399, 400, 1667, 2982  
P: 74, 268
- Endorphins, enkephalins and their analogues  
C: 477, 488, 1754, 3089, 4206, 4209, 4216, 4228  
E: 2813
- Environmental analysis (general papers)  
C: 2116, 2189, 2518, 2519, 2559, 2574, 3766, 3767, 4768  
G: 726  
P: 549, 570  
E: 897, 1043, 1046, 1102, 1623, 1706, 1732, 2555, 2786, 3253-3255, 3263
- Environmental analysis, reviews and books  
C: 146, 1192, 2188, 2200, 2233, 4164, 4765-4767, 4774, 4824  
P: 158, 166, 660, 683  
E: 898, 1704, 1882, 2729, 2791
- Enzymes (including activity measurement)  
C: 645-770, 1925-2047, 3249-3328, 4330-4395  
P: 289, 290, 483  
E: 529-627, 1330-1418, 2222-2305, 2970-3027
- , general techniques and reviews  
C: 645, 647, 706, 742(review), 1457, 1925(review), 2504(review)  
P: 289  
E: 529-532, 601(review), 1330(review), 1331(review), 1332(review), 2970(review)
- , activity measurement  
C: 646(review), 695(review), 749, 841, 1085, 1622, 1707, 1778, 2926, 3264, 3299, 3337, 3370, 3959, 4170, 4335, 4369, 4395, 4398, 4438  
P: 110, 289, 290, 397  
E: 562(review), 593, 633, 1059, 1385, 1392, 1408, 2275, 2826, 3018, 3235
- , complex mixtures and incompletely defined enzymes  
C: 767, 768, 2046, 2047, 3327  
G: 1114  
E: 621-627, 1198, 1415-1418, 2302-2305, 3025-3027  
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- Ephedra alkaloids  
C: 4165  
G: 1135  
P: 332
- Epoxides  
G: 203, 634, 638, 1573, 1628
- Ergot alkaloides  
C: 2092, 4610  
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G: 257-264, 628, 690-695, 697, 1111, 1113, 1115-1117, 1274, 1297, 1627, 1629-1636, 1860  
P: 471, 664, 673
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C: 2837, 2841  
G: 448, 1062, 1428, 1555, 1556, 1578
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C: 3768  
G: 639, 1581  
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C: 415, 1679, 1681, 1683, 2537, 3772, 4154  
G: 269, 699, 942, 1356, 1858  
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E: 270, 271, 2787

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## Ferrocenes

- C: 827
- G: 64, 616

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- G: 291, 892

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- C: 215-222, 1517-1522, 2823-2827, 4026, 4032-4037, 4741
- G: 197, 628-630, 1564
- P: 17-19, 205-207, 358, 405, 415, 416, 492, 572, 573, 672
- E: 195, 1045, 1885, 1886

Flavours, volatiles, odours, *see* Organoleptics

## Fluorinated antibiotics

- C: 876, 3459
- E: 3187

## Folic acid and other pteridine derivatives

- C: 749, 841, 847, 850, 2139, 2511, 3418, 3433

## Food analysis

- C: 200, 203, 204, 210, 223, 228, 255, 263, 280, 314, 318, 339, 343, 348, 360, 361, 377, 392, 393, 425, 427, 621, 644, 833, 835, 884, 904, 907, 911, 912, 916, 923, 932, 942, 943, 1095, 1097, 1098, 1109, 1173-1186, 1501, 1528, 1538, 1542, 1568, 1697, 2111, 2121, 2134, 2152, 2180, 2205, 2230, 2235, 2505-2513, 2816, 2922, 2828, 2829, 2837, 2863, 2867, 2912, 2940, 2943, 2944, 2959, 2993, 2996, 2998, 3039, 3049, 3052, 3376, 3379, 3403, 3420, 3431, 3453, 3470, 3475, 3479, 3482, 3497, 3762-3765, 3782, 3833, 3835, 4030, 4038, 4044, 4046, 4069, 4108, 4146, 4232, 4266, 4458, 4489, 4756, 4758-4761, 4763, 4764, 4780, 4816
- G: 138, 140, 150, 184, 198, 245, 252, 311, 315, 321, 327-329, 334-336, 338, 339, 343, 347, 350, 353, 358, 424, 425, 429, 432, 462, 465, 597, 641, 643, 652, 654, 663, 667, 680, 681, 691, 702, 707, 741, 746, 748, 753, 768, 770, 781, 782, 784, 815, 816, 843, 847-850, 1028, 1092, 1097, 1098, 1100, 1107, 1125, 1164, 1168, 1182, 1188, 1203, 1209-1211, 1277, 1278, 1283, 1285-1288, 1291, 1296, 1297, 1299, 1301, 1302, 1341, 1360, 1505, 1511, 1519, 1528, 1565, 1567, 1569, 1575, 1581, 1594, 1612, 1623, 1640, 1652, 1679, 1682, 1686, 1696, 1702, 1724, 1729, 1791-1794, 1796, 1798, 1800, 1801, 1835, 1836, 1873
- P: 20-22, 35, 281, 376, 416, 424, 429, 440, 451, 462, 473, 617
- E: 58, 275, 453, 896, 1701, 1702, 1720, 1729, 1881, 1887, 2771, 2808, 3184, 3186

## —, reviews

- C: 640, 1153, 1172, 1235, 2198, 2200, 2202, 2233, 2502-2504, 4755, 4757
  - P: 3
  - E: 895, 921, 2554, 3251, 3252
- see also* Antioxidants and preservatives; Medicated feeds; analysis of individual food constituents

## Food dyes

- C: 934, 936, 3504, 3505
- P: 510
- E: 850, 1641

## Fullerenes

- C: 202, 1330, 1409, 1502, 2798, 2800, 4014
- G: 913, 918
- P: 410, 569

## Fungicides

- C: 876, 904, 929, 930, 2230-2232, 3497, 3498, 4521
- G: 358, 781, 782, 1209, 1211, 1735-1740
- P: 320, 483, 509
- E: 848, 1640

## Furans

- C: 1533, 1539, 2210, 2489, 2833, 2834, 3663, 3995, 4017, 4044, 4046, 4153, 4515, 4655
- G: 484, 1840

## Furocoumarins

- C: 1531, 2835

**G**Gallium, *see* Cations, inorganic, analytical group IIIGangliosides, *see* Sphingolipids

## Gases

- G: 31, 45, 52, 422, 491, 492, 610, 875, 896, 936, 948, 973, 1307, 1361, 1362, 1367, 1368, 1463, 1810, 1811, 1834, 1849, 1874

## Glucosinolates

- C: 3388, 3394

## Glycerides, simple

- C: 1765
- G: 241, 549, 667, 843, 1090, 1091, 1612-1614
- P: 247
- E: 1923

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

## Glycolipids

- C: 2961
  - P: 44, 48, 53, 54, 58, 168(review), 238, 449, 450
- see also* Phospholipids; Sphingolipids

## Glycols and polyols

- C: 1507, 1698, 2810, 4023
- G: 1043
- P: 412

## Glycoproteins and glycopeptides, techniques

- C: 17(review), 293, 294, 296, 301, 303, 304, 306, 309-311, 1585, 1760, 1797, 2864, 4093, 4098
- E: 202, 215-217, 219(review), 220, 222, 224, 225, 228, 231, 234, 985, 1069, 1125, 1905, 1907, 1908, 1911-1913, 1914(review), 2767, 2809(review)

## —, applications, non-biological

- C: 295, 1584, 1599, 4094, 4095, 4101, 4102
- E: 230, 497, 1065, 1066, 1068, 1071, 1073, 1464, 1677, 1909, 2763, 2766

## —, —, microorganisms

- E: 232

## —, —, plants

- E: 1910
- see also* Lectins

## —, —, animal material

- C: 264, 297, 299, 300, 302, 305, 308, 1581, 1582, 1586, 1587, 1590, 1593, 1596, 2889, 2890, 2892, 2893, 3193, 4090, 4094, 4099, 4103, 4300, 4376
- E: 214, 216, 218, 221, 226, 227, 229, 231, 1067, 1072, 1906, 2764, 2767, 2914, 2938

## —, structure investigation

- C: 253, 1589, 2891, 2894, 4091, 4097, 4369
- E: 927(review), 1073, 1904, 2070, 2769

- Glycosaminoglycans (including proteoglycans of connective tissue)  
 C: 265, 275, 278, 282, 284, 287, 489, 715, 759, 1571, 1572, 1574-1576, 1578, 1579, 1595, 1916, 2057, 2874, 2875, 2878-2881, 2885, 2886, 4082, 4084, 4087, 4096, 4100, 4104, 4185  
 E: 212, 213, 1062, 1064, 1070, 1903, 2759, 2760, 2768  
 see also Glycoproteins and glycopeptides, applications, animal material
- , structural studies  
 C: 272, 298, 1573  
 E: 211, 1063, 1892  
 see also Carbohydrates, derivatives, amino sugars
- Growth factors  
 C: 457, 463, 470, 483, 560, 639, 810, 1779, 1836, 2138, 3072, 3079, 3246, 4691  
 G: 411, 723, 1616, 1675  
 E: 298, 303, 1133, 2823, 3241  
 see also Pituitary hormones and proteins; Gibberelins
- , structural studies  
 C: 1753, 1756
- Gold, see Platinum metals and gold
- Guanidine and guanidine derivatives  
 C: 429

## H

- Haemostatics  
 C: 2345, 3737, 3740, 4695, 4721
- Halides and other inorganic halogen-containing compounds (including cyanides and cyanates)  
 C: 820(review), 1230, 1231, 1236, 1409, 2507, 2541, 2589-2591, 2604, 2605, 2607, 2608, 3832, 3834, 3841, 3846, 3849, 3850, 4814, 4815, 4818, 4821, 4826  
 G: 35, 490, 495, 735, 790, 894, 1318, 1366, 1784  
 P: 551  
 E: 1726, 1732, 2556, 2584, 2586, 2596, 3213, 3282
- Hallucinogens (including cannabis constituents)  
 C: 1142, 1146, 1159, 2377, 2407, 3603  
 G: 397, 832, 835, 986, 1776
- Halogen derivatives of hydrocarbons, see Hydrocarbons, halogen derivatives
- Halogens  
 C: 934, 2591, 2592, 2599, 2600, 2608, 3829, 3831, 3846, 3849  
 G: 1876  
 E: 1596
- Harman alkaloids  
 C: 792, 793  
 E: 1612
- Herbicides, general techniques  
 C: 908, 919, 922, 925-928, 1303, 2217, 2219, 2220, 2228, 2229, 3485, 3488, 3492-3495, 4518  
 E: 846, 847, 1631, 1635, 1639
- , carboxylic acid, anilides and related compounds  
 C: 921-923, 3474, 3476, 3486  
 G: 342, 350, 776, 777, 854, 1163, 1201, 1205, 1207, 1726-1728, 1730, 1732, 1734, 1742  
 E: 845, 1637, 2493, 2495
- Herbicides, triazine derivatives  
 C: 912, 920, 924, 2218, 2221, 2222, 2224(review), 2225, 2226, 2716, 3486, 3487, 3491, 3496, 3498, 4520  
 G: 311, 344, 345, 349, 352, 354, 359, 591, 738, 774, 775, 778, 1195, 1198, 1202, 1204, 1206, 1208  
 P: 319(review)  
 E: 134, 1638(review), 2712, 3191
- , urea derivatives  
 C: 912, 925, 1424, 2223, 2227, 2655, 2716, 3483, 3484, 3489, 3490, 4517, 4519  
 G: 343, 1203  
 E: 1634, 1636, 2492, 2494
- Heterocyclics, nitrogen (other)  
 C: 169, 815, 819, 939, 3379, 3384, 4431  
 G: 451, 788, 1123, 1140, 1141, 1643  
 P: 12, 94, 299, 373, 624  
 see also individual groups of nitrogen containing heterocyclics and drugs
- , oxygen (other)  
 C: 1170  
 G: 201, 451, 1537  
 see also individual groups of oxygen containing heterocyclics
- , sulphur (other)  
 C: 3393, 3995  
 G: 451, 1134  
 E: 301, 3175  
 see also Thiazoles and isothiazoles; Thiophenes
- Histamine and related substances  
 C: 427, 4162  
 G: 1641  
 E: 275, 1110, 1620  
 see also Imidazoles
- Hormones peptidic and proteinous (including synthetic analogues)  
 C: 458, 463, 1757, 1762, 1769, 1777, 2681, 3064, 3079, 3083, 3084, 3094, 3096, 3099-3101, 3103, 4135, 4212, 4234  
 G: 679  
 E: 295, 1133, 1959, 2763, 2809(review), 2814, 2820(review)  
 see also individual categories of peptidic hormones
- , synthesis and structural studies  
 C: 463, 1784, 1785, 1797, 3062, 3084, 4214
- Humic acids  
 C: 1194, 2244, 2245, 3516, 3517  
 G: 118, 454, 474, 651, 873, 886, 1531, 1592  
 E: 1642, 1643, 2497-2499, 3193
- Hydrazines, hydrazides and hydrazones  
 C: 247, 1177, 3889  
 E: 278
- Hydrocarbons  
 C: 194-205, 1499-1505, 2797-2809, 4007-4021  
 G: 138-177, 594-614, 1009-1039, 1507-1552  
 P: 408-411, 568-571  
 E: 187, 1043-1046, 1879, 2743-2746
- , reviews and books  
 C: 2630, 3768, 3974  
 G: 1812
- , theory and techniques  
 G: 16, 506, 909, 1825  
 P: 173  
 E: 2744

## Hydrocarbons, aliphatic

C: 194, 195, 1499, 2797, 4007

G: 84, 138-141, 176, 446, 496, 505, 546, 556, 594-596, 856, 949, 950, 957, 1009-1013, 1039, 1307, 1336, 1435, 1436, 1453, 1478, 1493, 1507, 1508, 1578, 1833, 1877

## —, cyclic

C: 75, 143, 196-201, 203, 1202, 1204, 1334, 1374, 1377, 1388, 1392, 1409, 1499-1505, 2645, 2666, 2708, 2742, 2799, 2801-2803, 2818, 3892, 3903, 3924, 4008-4014, 4016-4019, 4768, 4769, 4795

G: 18, 26, 76, 84, 142-155, 176, 188, 441, 461, 509, 510, 597-600, 602, 856, 857, 919, 1014-1020, 1022, 1023, 1039, 1319, 1322, 1447, 1457, 1496, 1500, 1509-1529, 1541, 1570, 1678, 1806, 1822, 1827, 1830, 1855

P: 1(review), 12, 279, 408, 409, 411, 570, 681

E: 62, 66, 70, 95, 100, 117, 143, 187, 1011, 1017, 1043-1046, 1780, 1824, 1830, 1835, 1846, 1879, 2619, 2655, 2743-2746

## —, halogen derivatives

C: 127, 204, 2805, 3768, 3924, 3955, 4016, 4544

G: 67, 156-161, 165, 167, 168, 271, 326, 441, 476, 566, 604-607, 609, 611, 612, 633, 786, 854, 882, 919, 931, 1021, 1025-1030, 1032-1035, 1319, 1500, 1530, 1532, 1533, 1536, 1537, 1539, 1542-1549, 1569, 1570, 1694, 1698, 1706, 1708, 1771, 1784, 1808, 1809, 1831, 1854

E: 2655, 2743, 3254

see also Biphenyl and derivatives; Pesticides, chlorinated

## —, complex mixtures

C: 160, 205, 2806, 2808, 4015, 4019

G: 172, 614, 869, 1036, 1286, 1551, 1817, 1826, 1829

P: 408

## Hydrogen

G: 497, 973, 1880

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

C: 705-715, 1324, 1975-1993, 3287-3297, 3959, 4306, 4361-4374

E: 574-582, 889, 942, 1248, 1299, 1369-1377, 2260-2263, 2264(review), 2265-2270, 2917, 2991-3005

## —, —, structural studies

C: 707

E: 1139

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

C: 716(review), 717-724, 1994-2005, 3122, 3298-3304, 4375-4380

E: 583-585, 586(review), 587-592, 1042, 1378-1387, 2195, 2271-2276, 2281, 2769, 3006-3011, 3067

## —, acting on ether bonds (E.C. 3.3.-.-), structural studies

C: 4385

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

C: 506, 620, 727, 730-734, 735(review), 736-741, 742(review), 743, 744, 745(review), 747, 748, 750, 1344, 1895, 2006-2008, 2010-2014, 2016-2018, 2022-2026, 2712, 3307-3309, 3311, 3312, 3314, 3316, 3318, 3905, 3971, 4306, 4307, 4381-4383, 4386-4391, 4443

E: 482, 595, 596, 598, 600, 601(review), 602, 603, 604(review), 605-606, 609, 610, 1227, 1295, 1388, 1390, 1392-1394, 1397-1401, 1404, 1405, 1407, 2217, 2277, 2279, 2282, 2285, 2287-2289, 2291-2296, 2812, 2933, 3013-3017, 3051, 3092

## —, —, structural studies

C: 502, 620, 1792, 2016, 3310

E: 482, 609, 1140, 1410, 2296

## Hydrolases, acting on C-N bonds other than peptide bonds

(E.C. 3.5.-.-)

C: 728, 746, 749, 1457, 2015, 3305, 3313, 3317

E: 597, 1391, 2284, 2286

## —, acting on acid anhydride bonds (E.C. 3.6.-.-)

C: 725, 726, 2009, 2019-2021, 2246, 3306, 3315, 4384

E: 382, 594, 599, 607, 1168, 1389, 1395, 1396, 1403, 1406, 1485, 2278, 2283, 2290, 3012

## —, —, structural studies

C: 1788

E: 314, 1409, 3012

## —, uncompletely identified

E: 608, 1402

## —, activity measurement

C: 235, 3299, 3959

P: 397

E: 593, 633, 1385, 1392, 1408, 2275, 2826, 3018, 3235

## Hydroxylamines

E: 2794

## Hypnotics (barbiturates, sedatives)

C: 1038, 1041, 1066, 1048, 1078, 1080, 1082, 1087, 2278, 2362, 2363, 2382, 2388, 2408, 2410, 3537, 3601, 3605, 3614, 3626, 3628, 3646, 3903, 4611, 4618, 4621, 4628, 4635

G: 1249, 1762, 1763, 1765, 1769

P: 337, 651

E: 876, 1668, 2522, 2523, 2525

## Hypolipidemic agents

C: 2471, 2474, 3582, 3722, 4141, 4729

## Hypotensives and antihypertensives

C: 1032, 2278, 2315, 2323, 2325, 2329, 2333, 2336, 2338, 2349, 2352-2354, 3086, 3318, 3559, 3565, 3573, 3581, 3583, 4582, 4586-4588, 4590, 4591

G: 385

P: 479, 642, 645

E: 870, 872

see also Adrenergic and adrenergic blocking agents

## I

## Imidazoles and related compounds

C: 814, 1017, 1693, 1735, 1744, 2777, 2780, 3379, 4164(review), 4181, 4425, 4429

G: 356, 1641, 1743

P: 405, 557, 625, 654

E: 2477, 2479, 2791(review), 3174

see also Histamine and related substances

## Immunosuppressives and immunomodulatory drugs

C: 870, 877-879, 895, 2162, 2476, 3724, 3743, 4492, 4495

see also Peptide and amino acid antibiotics

## Indole alkaloids

C: 802, 2720, 3358

G: 1138

P: 87, 91, 92

E: 1616, 3170

## Indoles, techniques

E: 827

## Indoles, applications

- C: 792, 806(review), 807-811, 1007, 1700, 2094, 2507, 3006, 3368-3371, 3373-3375, 3377, 3619, 4164(review), 4171(review), 4172, 4422-4425  
E: 50, 237, 1110, 1619, 2791(review), 3173, 3244

## Inhibitors of enzymic activity, proteinous

- C: 462, 1764, 1841, 1853, 1924, 2287, 3175, 3240, 3244, 3247, 3248, 4325, 4328  
E: 528, 1173, 1210, 1214, 1326, 1400, 2039, 2082, 2090, 2215, 2219, 2964, 2965, 2969

## —, non-proteinous

- C: 883, 897, 898, 1099, 1105, 1106, 1111, 1118, 1203, 1208, 1326, 1531, 1720, 2085, 2156, 2175, 2178, 2315, 2338, 2345, 2354, 2433, 2456, 2466, 2472, 2475, 2485, 2535, 3086, 3619, 3675, 3689, 3721, 3744, 3959, 4334, 4475, 4477, 4478, 4498, 4549, 4588, 4591, 4654, 4664, 4677, 4688, 4690, 4692, 4694, 4705, 4710, 4719, 4726  
P: 108, 202, 311, 312, 327, 479, 531, 654, 655  
E: 869, 1868, 2504

## Inks

- C: 3821  
P: 323  
E: 1691

## Inorganic compounds

- C: 1210-1239, 2549-2608, 3787-3851, 4790-4827  
G: 490-495, 893-899, 1359-1369, 1876-1883  
P: 152-155, 380-385, 547-551, 686-688  
E: 908-924, 1717-1732, 2571-2597, 3271-3285  
see also Anions, inorganic; Cations, inorganic; individual types of anions and cations

## —, reviews and books

- P: 152

## Insulin and analogues

- C: 457, 464, 470, 471, 480, 1768, 1770, 1776, 3085, 3097, 4211, 4220  
E: 294, 309, 1136, 1275, 1276

## —, structural studies

- C: 3076

## Iridoid glucosides

- P: 666

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

## Isocyanates and cyanates, inorganic, see Halides and other inorganic halogen containing compounds

## —, organic

- C: 3015  
G: 1221, 1305, 1744  
P: 79, 111

## Isomerases

- C: 762(review), 2035-2039, 3324, 4394  
E: 616, 617(review), 889, 1458, 2300, 2301, 2434, 3021-3023

## J

## Juvenile hormones

- C: 4106

## L

## Larvicides, insecticides

- C: 2234, 2237, 3500, 3502, 4522, 4523  
P: 634, 636

## Laxatives

- C: 1535, 2480  
P: 214  
E: 891

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

## —, organic

- G: 297, 312, 319, 742

## Lectins

- C: 1583, 1588, 1591, 1592, 1594, 1597, 1598, 2888, 4092  
E: 223, 235, 995, 1074, 2765

## Lichen acids

- C: 307, 2911, 2923

## Ligases, forming C-O bonds (E.C. 6.1.-.-)

- C: 2040, 2043, 3326

## —, forming C-S bonds (E.C. 6.2.-.-)

- C: 763  
E: 3024

## —, forming C-N bonds (E.C. 6.3.-.-)

- C: 764, 765, 2041, 2045  
E: 618

## —, forming C-C bonds (E.C. 6.4.-.-)

- C: 766, 2042  
—, other (including E.C. 6.5.-.-)

- C: 2044, 4399  
E: 1414

## —, activity measurement

- C: 4395

## Lignin compounds

- C: 2496, 2845, 3392  
G: 362, 468, 883, 889, 925, 988, 1343, 1385, 1403, 1586, 1837, 1845, 1857, 1862  
P: 215, 356, 419  
E: 1053

## Lipids

- C: 345-378, 1627-1640, 2939-2961, 4121-4129  
G: 239-241, 667, 668, 1090-1092, 1609-1614  
P: 37-63, 230-260, 436-462, 584-604  
E: 239-241, 1085, 1086, 1925-1934, 2778-2783

## —, reviews and books

- C: 354, 2955  
G: 239, 240  
P: 55, 168

## —, general techniques

- C: 346, 356, 358, 362-364, 366, 1629, 2932, 2939, 2943, 2945, 2954, 2959, 3480, 3719, 4129, 4459  
P: 38, 44, 53, 169, 239, 248, 252, 256, 436, 458, 462, 464, 585, 595, 600  
E: 1098, 2467

## —, group separation

- C: 1639, 4128  
P: 258, 253, 601

## —, applications, non-biological

- C: 348, 353, 369, 1628, 1634, 1640, 2910, 2952, 4127  
P: 37, 40-42, 44, 52, 56, 63, 231, 586, 587  
E: 1085

- Lipids, applications, microorganisms  
 C: 347, 357, 1632, 1635, 2956  
 P: 46, 237, 245, 251, 253, 457, 466, 592, 598, 604  
 E: 1923
- , —, plants  
 C: 351, 368, 375, 2960  
 G: 1073  
 P: 51, 233, 414, 442, 444, 456
- , —, blood  
 C: 4126  
 P: 254, 593, 597  
 E: 240
- , —, brain and nerve tissue  
 C: 373  
 P: 57, 59, 453, 586
- , —, milk and food products  
 C: 360, 361, 2950, 2959  
 G: 1611  
*see also* Food analysis
- , —, other animal material  
 C: 355, 1627, 1630, 1765, 2943, 4124  
 G: 668, 1609  
 P: 39, 43, 47, 60, 234, 247, 249, 260, 443, 445, 455, 460-462, 464, 585, 586, 588, 596, 602
- , oxidation products  
 C: 359, 1627, 1633, 2839, 2936, 2940, 2948, 4111, 4119, 4134  
 G: 1400, 1606, 1610  
 P: 27, 236
- Lipopolysaccharides  
 C: 372, 4122  
 E: 239, 241, 1924
- , structure studies  
 C: 1563
- Lipoproteins (including apolipoproteins), techniques  
 C: 1209, 2962  
 E: 261
- , applications  
 C: 353, 379-383, 1641-1645, 2963-2965, 4130-4133  
 P: 64, 605  
 E: 242-264, 1087-1098, 1183, 1925-1934, 2084, 2161, 2231, 2778-2783  
*see also* Proteins of blood, serum and blood cells
- , structural studies  
 G: 1073, 1398
- Local anaesthetics, *see* Anaesthetics
- Lubricants  
 G: 479
- Lyases, activity measurement  
 C: 3337  
 E: 1059
- , carbon-carbon (E.C. 4.1.-.-)  
 C: 751, 752, 754, 756, 761, 2028, 2033-2035, 3320-3322  
 E: 611, 614, 1413, 2297, 2298, 3019, 3020
- , —, structural studies  
 C: 497
- , carbon-oxygen (E.C. 4.2.-.-)  
 C: 753(review), 759, 2027, 2029, 2030, 3319, 4346, 4392  
 E: 612(review), 1411
- , carbon-nitrogen (E.C. 4.3.-.-)  
 C: 760, 4393

- Lyases, other  
 C: 749, 755, 757, 2031, 2032  
 E: 615

## M

- Macrolides (including erythromycine)  
 C: 866-868, 870, 877, 888, 895, 1455, 2152, 2154, 2162, 2167, 2182, 2476, 3449, 3451, 3455, 3457, 3460, 3462, 3464, 3467, 3660, 3724, 4486, 4487  
 P: 308, 503, 504
- Magnesium, *see* Alkaline earths
- Manganese, *see* Cations, inorganic, analytical group III
- Mercury, *see* Cations, inorganic, analytical group I and IIa
- , organo-compounds  
 C: 2116, 3403, 4445-4447, 4784  
 G: 296, 299, 300, 302, 310, 319, 731-733, 739, 996, 1148-1150, 1669  
 E: 835, 2575, 3277
- Metal carbonyls  
 G: 1146  
 P: 345
- Metallocenes  
 G: 1807
- Mineral oils, hydrocarbons in  
 G: 613, 1037, 1038, 1134  
*see also* Hydrocarbons, aliphatic; Hydrocarbons, complex mixtures; Crude oil and petroleum analysis
- Molybdenum, *see* Cations, inorganic, analytical group IIb
- Mycotoxins, other  
 C: 223, 224, 226-229, 1156, 1182, 1525, 1526, 2829-2832, 2957, 4041, 4038, 4039  
 G: 198, 199, 631, 1054, 1565, 1566  
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 E: 873

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- Nickel, *see* Cations, inorganic, analytical group III
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 G: 265-268, 624, 1120, 1121  
 P: 79, 111, 150, 277, 409, 681, 685  
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 C: 1089, 2507, 3385, 3726, 3890  
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 —, —, structural studies  
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 C: 676, 1936, 4340  
 E: 2864  
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 C: 1943, 1944  
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- Oxidoreductases, acting on CH-NH<sub>2</sub> group of donors (E.C. 1.4.-.-), structural studies  
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- , acting on CH-NH group of donors (E.C. 1.5.-.-)  
C: 1942, 3259  
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C: 650, 678, 4332, 4337  
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- , acting on other nitrogenous compounds as donor (E.C. 1.7.-.-)  
C: 683, 3046  
E: 555, 1337, 2223
- , —, structural studies  
C: 1799
- , acting on the sulphur group of donors (E.C. 1.8.-.-)  
C: 1934  
E: 401, 2972
- , —, structural studies  
C: 664
- , acting on a haem group of donors (E.C. 1.9.-.-)  
C: 1929  
E: 549
- , acting on H<sub>2</sub>O<sub>2</sub> as acceptors (E.C. 1.11.-.-)  
C: 654, 671, 679(review), 3256, 3258, 4341  
E: 534, 536, 548, 552(review), 2222, 2233, 2454, 2971, 2976
- , acting on single donors with incorporation of oxygen (oxygenases) (E.C. 1.13.-.-)  
C: 649, 652, 655, 673, 4333, 4336, 4343  
E: 1338, 2974
- , acting on paired donors with incorporation of oxygen into one donor (hydroxylases) (E.C. 1.14.-.-)  
C: 657, 659, 660, 672, 1630, 1928, 1931, 1933, 1938, 3250, 3252-3255, 4114, 4333, 4334, 4348  
E: 540, 1187, 1345, 1348, 2234, 2971, 2973
- , acting on superoxide radicals as acceptor (E.C. 1.15.-.-)  
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- , other and uncompletely identified oxidoreductases (E.C. 1.19.-.-)  
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- , —, food products  
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G: 899, 1663

P: 550

E: 2556, 2584, 2593, 2595, 2596

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P: 130, 205, 362, 418, 510, 513, 667

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P: 190

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C: 1601, 2249, 3527, 3781, 4534, 4545

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C: 950-972, 2248-2274, 3519-3529, 4534-4547

G: 1744-1754

E: 852, 853, 1644, 1645, 2500, 3194, 3195

## —, reviews and books

C: 950, 959, 968, 2248, 2252, 3522, 3524, 3863

G: 1752

E: 3194

## —, techniques and theory

C: 56, 113, 951-953, 955-957, 965, 967, 969, 972, 1448, 2252, 2254, 2256, 2259-2263, 2265-2267, 2269-2273, 2668, 2708, 3519, 3521, 3523, 3526, 3529, 4537-4539, 4541, 4543, 4547

G: 1218, 1751

E: 853, 1644, 1714

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## Platelet agents

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P: 16

E: 1708, 3279

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E: 852

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## Polycarbonates

C: 2252

G: 789, 1748

## Polyene antibiotics

C: 897, 1455, 3466

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C: 1455, 2150

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C: 968(review), 971, 1149, 2531, 3528

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## Polyolefins

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G: 792, 1750, 1848

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E: 901

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P: 220, 427, 428

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- G: 469
- P: 220
- E: 1059, 2752

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## Polyvinyl alcohol

- C: 960, 961

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- C: 2093, 3366, 4420(review), 4492
- P: 298
- E: 126, 826

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P: 264

E: 267, 268, 1021, 2710

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- C: 389, 1006
- P: 65, 261, 348, 607
- E: 866, 2785

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- C: 386, 388, 1651, 1653, 1654, 1656, 2969, 2971, 2973, 2974, 4137, 4139, 4140
- G: 244
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- E: 1935, 2784

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- C: 344, 1313, 1621-1626, 2935-2938, 4120
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- P: 33, 583

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

- C: 555, 597-599, 1877, 3199, 3200, 4295, 4317
- E: 377, 461-463, 1265-1267, 1967, 2005, 2021, 2136-2142, 2353, 2466, 2923-2926, 2957, 3107

## —, —, structural studies

C: 3199

## Proteins

- C: 505-644, 1805-1924, 3121-3248, 4239-4329
- P: 288
- E: 327-528, 1146-1329, 1978-2221, 2831-2969

## —, reviews and books

- C: 5, 17, 181, 478, 5221, 522, 530, 542, 548, 551, 562, 565, 640, 1252, 1805, 2763, 2767, 3130, 3140, 3177, 3857, 3956, 4552
- E: 178, 336, 340, 345, 349, 362, 383, 403, 436, 451, 454, 485, 490, 713, 927, 928, 1162, 1740, 1851, 2012, 2108, 2601, 2737, 2832, 2840, 2846, 2870, 2887, 3158

## —, general techniques

- C: 14, 91, 105, 106, 113, 154, 193, 472, 504-520, 523-529, 531-541, 543-547, 549, 550, 552-554, 1298, 1303, 1314, 1324, 1357, 1456, 1461, 1806-1825, 1890, 1839, 2681, 2722, 2765, 3057, 3080, 3119, 3121-3129, 3131-3139, 3141-3143, 3174, 3229, 3913, 3920, 3925, 3926, 3947, 3958, 3963, 3964, 3969, 3975, 3998, 4239-4262, 4279, 4319
- P: 288
- E: 14, 26, 63, 92, 131, 142, 184, 215, 258, 327-335, 337-339,

- 341-344, 346-348, 350-352, 354-361, 363-365, 397, 450, 521, 714, 942, 943, 948, 1009, 1019, 1146-1161, 1163-1167, 1763, 1769, 1774, 1778, 1792, 1799, 1800, 1802, 1804, 1807, 1823, 1837, 1839, 1856, 1875, 1978-2011, 2013, 2211, 2639, 2648, 2690, 2738-2740, 2831, 2833-2839, 2841-2845, 2847-2849, 3166

## see also Glycoproteins, lipoproteins

## Proteins, general techniques, sequence and structural studies

- C: 491-495, 496(review), 499, 503, 504, 1252(review), 1782, 1791, 1822, 3059, 3092, 3105, 3107, 3119, 3120, 3897, 4235, 4238

P: 482

E: 67, 315, 317, 320, 323(review), 325, 326, 342, 1144, 1145, 1798, 1875, 1970, 1977(review), 1985, 2211, 2636, 2798, 2830

## see also structural studies on individual categories of proteins

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

- C: 555-561, 1826-1831, 2005, 3144-3155
- E: 232, 366-382, 383(review), 384-389, 394, 395, 404, 445, 466, 498, 565, 610, 655, 1168-1194, 1201, 1296, 1303, 1318, 1387, 1603, 1960, 1993, 2014-2051, 2053, 2058, 2081, 2201, 2227, 2247, 2850-2861, 2948, 2980, 3060, 3068, 3072, 3074

## —, —, structural studies

- C: 500, 556, 1795, 3104
- E: 324, 2050

## —, synthesized by gene manipulation

- C: 483, 561, 562(review), 563, 564, 565(review), 566-569, 590, 627, 1781, 1790, 1832-1840, 1859, 1881, 1908, 1923, 3129, 3156-3162, 4263, 4366

E: 217, 230, 298, 303, 325, 376, 390-404, 435, 449, 469, 501, 511, 515, 516, 519, 523, 525, 542, 614, 640, 657, 680, 1171, 1195-1204, 1232, 1329, 1337, 1340, 1346, 1352, 1362, 1367, 1386, 1454, 1458, 1492, 1517, 1677, 1974, 2034, 2052-2059, 2070, 2094, 2100, 2134, 2150, 2222, 2227, 2766, 2769, 2862-2867, 2939, 2994, 2995, 3004, 3042, 3063, 3134(review)

## —, microbial and plant proteins (including proteins of foods of plant origin)

- C: 298, 570-574, 1152, 1841-1856, 3135, 3157, 3163-3170, 3146, 3238, 4252, 4264-4274, 4284

E: 365, 405-426, 1142, 1202, 1205-1221, 1790, 2057, 2060-2087, 2110, 2736, 2865, 2868, 2869, 2870(review), 2871-2886, 2887(review), 2888-2895, 2907, 3097, 3150, 3190

## —, —, structural studies

- C: 1798, 1800, 1854, 3113, 3117, 4236
- E: 1142, 2068

## —, of blood serum and blood cells

- C: 156, 575-593, 634, 1593, 1772, 1813, 1824, 1838, 1857-1874, 2547, 2775, 2953, 3127, 3162, 3171-3176, 3177(review), 3178-3193, 3202-3204, 3210, 3211, 3969, 4250, 4263, 4274-4292, 4301, 4302, 4313, 4328

P: 630

E: 226, 390, 399, 427-435, 436(review), 437-450, 451(review), 475, 507, 893, 1067, 1146, 1222-1245, 1275, 1304, 1373, 1677, 1697(review), 1802, 1979, 2059, 2079, 2088-2107, 2108(review), 2109-2114, 2143, 2145, 2148, 2214, 2896-2916, 2931, 2932

## see also Lipoproteins; Chromoproteins and metalloproteins; Specific binding proteins (receptors)

## Proteins, of blood serum and blood cells, structural studies

- C: 590, 634, 1790, 1802, 1869, 3184  
 G: 1637  
 E: 449, 507, 1143, 1239, 2100
- , structural proteins (except contractile elements)  
 C: 594, 733, 1876, 3194-3197, 4293  
 E: 454(review), 459, 1246-1248, 1250-1252, 1256-1259, 1261, 1262, 1264, 2118-2123, 2125, 2126, 2134, 2764, 2918, 2919, 2968, 3057
- , —, structural studies  
 C: 1789, 3030  
 E: 1971, 2120, 2320, 2829, 2920
- , of brain, nerves, cerebrospinal fluid and eye  
 C: 623, 730, 1896-1901, 3224, 4310, 4322  
 E: 366, 392, 483, 484, 485(review), 486-489, 496, 952, 1277-1285, 1296, 1464, 1549, 1987, 2172-2177, 2469, 2944-2948
- , —, structural studies  
 C: 3114  
 E: 1972, 1976  
 For eye pigments see Pigments natural (and fluorescent substances)
- , of muscle and meat products (including related contractile proteins)  
 C: 595, 596, 635, 1875, 3198, 4294, 4312  
 E: 382, 385, 452, 453, 455-458, 460, 1249, 1253-1255, 1260, 1263, 2032, 2115-2117, 2124, 2127-2133, 2135, 2139, 2917, 2921, 2922, 2952, 3042
- , —, structural studies  
 E: 316
- , of glands and gland products (except mammary gland), various zymogens  
 C: 596, 618, 620, 631, 1809, 1826, 1889, 1891, 1892, 2062, 3217, 3221, 4305, 4388  
 E: 454(review), 466, 482, 1172, 1273, 1274, 1296, 1325, 1327, 1987, 2044, 2056, 2152, 2153, 2156-2160, 2163-2167, 2170, 2171, 2188, 2938, 2942, 3014, 3025, 3041
- , —, structural studies  
 C: 620
- , of milk  
 C: 621, 622, 1173, 1890, 1909, 2513, 3119, 3218, 3219, 3222, 4266  
 E: 480, 481, 1306, 1405, 2154, 2161, 2168, 2939-2941, 2943, 3070
- , —, structural studies  
 C: 501, 621, 3119, 4044  
 E: 322
- , of eggs  
 C: 640(review), 641, 644, 1921, 2893  
 E: 520, 524
- , urinary  
 C: 638, 1916, 1917  
 E: 518, 519, 1324, 2162, 2210, 2961, 2962
- , —, structural studies  
 C: 4324
- , from neoplastic tissue  
 C: 158, 308, 613, 624, 625, 1968, 3186  
 E: 229, 367, 490(review), 491-497, 1286-1290, 2159, 2162, 2166, 2167, 2178-2191, 2198, 2258, 2949, 2950
- , —, structural studies  
 C: 3111

## Proteins, complex mixtures and uncompletely specified proteins

- C: 642, 1900, 1919, 1920, 1922, 1923, 3227, 3241-3243, 3245, 4327, 4329  
 G: 887, 1839  
 P: 62  
 E: 346, 392, 521-523, 526, 1232, 1328, 1329, 2179, 2186, 2211-2214, 2216, 2218, 2220, 2221, 2942, 2966-2968
- , —, structural studies  
 E: 2221
- Protoberberine alkaloids  
 E: 3170
- Psychostimulants  
 C: 1025, 1047, 1477, 1694, 2360, 2367, 2386, 2395, 2399, 2409, 3597, 3625, 3636, 4599, 4619, 4739  
 G: 272, 390, 393, 395, 409, 412, 417, 800, 805, 827, 829, 830, 834, 1239, 1241, 1261, 1267, 1268, 1270, 1273, 1761, 1783  
 P: 81, 338, 522  
 E: 1687, 3227, 3231, 3233
- Purine alkaloids (xanthines)  
 C: 75, 798-801, 1025, 2081, 2083, 2085-2087, 2090, 2091, 2372, 2691, 3353, 3541, 4419, 4599, 4624  
 P: 122  
 E: 1196, 1614, 1617, 3171
- Purine antibiotics  
 C: 3472
- Purines, pyrimidines, nucleotides, nucleosides  
 C: 771-778, 2048-2063, 3329-3342, 4396-4404  
 G: 278, 279, 714, 715, 1133  
 P: 86, 291, 484-488, 618, 619  
 E: 629-637, 1419-1429, 2306-2316, 3028-3037
- , reviews  
 C: 2763
- , techniques  
 C: 798, 1160, 1455, 2053, 2056, 2059, 2060, 2063, 3336, 3341, 3892, 3951, 4398, 4401, 4402  
 G: 278, 709, 714  
 P: 97, 284, 488, 619  
 E: 142, 628, 629, 1426, 1427, 1429, 1733, 1848, 2307, 2315, 2690, 2715, 3028, 3032, 3036
- , analogues of purines, pyrimidines, nucleotides and nucleosides (fluoro ...)  
 C: 771, 801, 1092, 1707, 2049, 2050, 2052-2054, 2063, 2460, 2477, 3329, 3335, 3340, 3656, 3691, 3693, 3697, 3700, 3701, 3709, 3712, 3713, 3745, 4397, 4398, 4403, 4651, 4658, 4670, 4685, 4687, 4720, 4727  
 G: 279  
 P: 484, 487, 618  
 E: 630, 636, 834, 1661, 2478
- , applications, non-biological  
 C: 772, 774-776, 778, 2055, 2061, 2728, 3334, 3337, 4356, 4369, 4396, 4404  
 G: 50  
 P: 96, 485  
 E: 633
- , —, enzymic  
 C: 2057
- , —, microorganisms  
 C: 2055, 2058, 2062, 4399  
 P: 486

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

C: 783, 2051, 2058, 3315, 3329, 3333

G: 1133, 1260

P: 619

E: 1424, 2306, 2310, 2313-2315

## —, —, food products

E: 2309

## Pyrazines

C: 816, 1308, 4181

G: 433, 1654, 1840

see also Diazines

## Pyrazoles

C: 4434, 4710

G: 1616

## Pyrethrins (and other natural insecticides)

C: 904, 2189, 2233(review), 2234, 3475, 3500, 3502, 3503, 4505, 4522

G: 346, 348, 351, 353, 771, 772, 784, 1196, 1197, 1199, 1200, 1729, 1731, 1741, 1742, 1786

P: 321

E: 2750, 3192

## Pyridine and piperidine derivatives

C: 132, 812, 1353, 1728, 2096, 2100, 2110, 2649, 2713, 2774, 2780, 3891, 4164(review), 4425, 4427, 4695

G: 284, 724, 1840

P: 177

E: 23, 829, 1686, 2619, 2791(review)

## —, carboxylic acids

C: 1363, 2097, 3383

see also Nicotinic acid and derivatives

Pyridoxine, see Vitamins, B<sub>6</sub> group

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

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

## Pyrroles, pyrrolidines and pyrrolidones

C: 1052, 2116, 3031, 4430

E: 1618, 3175

see also Bile pigments; Porphyrins and metalloporphyrins

## Pyrrolizidine and pyrrolizide alkaloids

C: 3361

P: 489

## Q

## Quinoline and isoquinoline alkaloids

C: 2076, 2079, 4411

P: 88

E: 1616, 3170

## Quinolines and isoquinolines

C: 813, 814, 817, 1007, 1308, 1447, 2098, 2801, 3379, 3380, 3382, 3387, 3650, 3689

G: 725, 1655

P: 94, 391, 409

E: 1673, 1941, 2477, 2534

## Quinolizidine alkaloids

C: 2078

G: 718

E: 2541

## Quinones

C: 2840, 3866, 4049, 4052

## R

## Radioactive and other isotope compounds

C: 179, 976, 1240, 1604, 2060, 2553, 2559, 2610, 2611, 3826, 3852, 3853, 3987, 4095, 4399, 4433, 4790

G: 906

P: 41, 42, 56, 73, 156, 157, 231, 291, 689

E: 1733, 3286, 3287

## Radiopharmaceuticals

C: 1874, 2609, 2777

## Radioprotective agents

C: 4711

## Rare earths

C: 832, 2549, 2573, 2583, 3806, 3814, 3817, 3820, 4798, 4801, 4802, 4811

G: 507

P: 383, 688

E: 154, 1723, 3253, 3275

## Repellents, see Larvicides, insecticides

## Resins, alkyd

G: 1060, 1846

## —, phenolic

G: 364, 885, 1745

E: 2748(review)

## —, polyester

C: 966, 2253, 2254, 4542

G: 1220

## —, polyethylene and polypropylene glycols

C: 970-972, 1508

P: 201

## —, poly(vinyl chloride)

G: 463, 1745, 1866

## —, poly(vinylpyrrolidone)

C: 4536

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

## Respiratory stimulants

C: 1130

## RNA, reviews

E: 647, 726, 2599, 3061

## —, techniques

C: 512, 552, 780, 2064-2066, 4405

E: 131, 644, 646, 650, 665, 669, 674, 709, 770, 1438, 1467, 1473, 1475, 1549, 2152, 2328, 2340, 2351

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

E: 402, 577, 593, 618, 625, 640-643, 645, 649, 651, 652, 655-657, 660-663, 670, 671, 676, 679, 1187, 1252, 1288, 1338, 1345, 1430-1434, 1440, 1442, 1443, 1445, 1447, 1449, 1450, 1453, 1454, 1457, 1460-1462, 1464-1466, 1468, 1469, 1471, 1474, 1476, 1477, 1479, 1481, 1486, 1487, 1489, 1490, 1492, 1495, 1496, 1510, 1549, 1602, 2045, 2242, 2255, 2269, 2320, 2321, 2323-2327, 2329-2331, 2333-2337, 2341-2343, 2345-2348, 2350, 2352-2362, 2364, 2385, 2392, 2432, 2852, 2974, 3004, 3038, 3043, 3047, 3048, 3051, 3054-3057, 3059, 3060,

- 3063-3066, 3071, 3072, 3076-3078, 3085, 3092, 3155, 3164, 3165
- RNA, applications, microorganisms  
 C: 779, 782, 1969, 3344  
 E: 666, 1441, 1446, 1504, 2317, 2349, 2357
- , —, plants  
 C: 4406  
 E: 581, 654, 1432, 1472, 1491, 1496
- , —, animal material  
 C: 781, 783, 3343  
 E: 392, 399, 570, 572, 638, 639, 648, 653, 658, 659, 664, 667, 668, 670, 672, 673, 675, 677, 678, 680, 704, 727, 1177, 1313, 1334, 1340, 1367, 1409, 1435-1437, 1439, 1444, 1448, 1450-1452, 1455, 1456, 1458, 1459, 1462, 1463, 1470, 1478, 1480-1485, 1488, 1490, 1493, 1494, 1510, 2037, 2121, 2157, 2318, 2319, 2322, 2327, 2331, 2332, 2334, 2338, 2339, 2344, 2345, 2359, 2363, 2391, 2542, 2938, 2976, 2983, 3039-3042, 3044-3046, 3049, 3050, 3052, 3053, 3055, 3058, 3062, 3067-3070, 3073-3075, 3079, 3139
- , structural studies  
 P: 292  
 E: 765, 766, 1439, 1465, 1510, 1547-1558, 2403, 2406-2409, 2424, 2547, 3112-3116, 3159(review)
- Rodenticides  
 C: 2236
- Rubber natural and synthetic (inclusive pyrolysis products)  
 G: 363, 1753
- Rubidium, *see* Alkali metals

## S

- Saponins and sapogenins  
 C: 403, 1455, 1600, 1669, 2498, 2500, 2843, 4147, 4148  
 G: 1105  
 P: 75, 76, 270, 272, 609-611, 671  
 E: 1694, 2541, 3246
- Secretolytics  
 C: 2381, 3439
- Selenium compounds, inorganic, *see* Cations, inorganic, analytical group IIb
- , organic  
 C: 2112, 3407, 4399, 4448  
 G: 303, 1153
- Seneco alkaloids  
 E: 2473
- Sexual attractants, *see* Pheromones
- Sialic acids, *see* Glycosaminoglycans
- Silicium compounds, inorganic  
 C: 2255(review), 3796  
 G: 899
- , organic  
 C: 1376, 2587  
 G: 475, 522, 743, 880, 894, 1152, 1219, 1225, 1673
- Silver, *see* Cations, inorganic, analytical group I and IIa
- Snake venoms, *see* Venoms, snake
- Sodium, *see* Alkali metal
- Soil pollution  
 C: 919, 925, 2119, 2198, 2227, 2247, 2554, 2716, 3403, 3483, 3485, 3491, 3494, 3496, 3501, 3777, 3778, 4017, 4776, 4796, 4803  
 G: 146, 152, 156, 161, 163, 193, 271, 292, 324, 325, 341, 354, 364, 441, 460, 461, 488, 621, 666, 731, 739, 747, 775, 779, 853, 869, 872, 873, 878, 892, 1030-1032, 1038, 1052, 1053, 1320, 1336, 1510, 1513, 1515, 1520, 1527, 1536, 1542, 1546, 1562, 1583, 1593, 1622, 1666, 1716, 1726, 1732, 1733, 1757, 1805, 1806, 1826, 1828-1831  
 P: 150, 314, 634  
 E: 1707, 1708, 1884, 2494, 3255, 3258, 3259  
*see also* individual polluting compounds
- Spasmolytics  
 C: 2470, 3590, 3639, 4581  
 G: 107, 381, 1675
- Specific binding proteins (receptors)  
 C: 626-637, 733, 1581, 1588, 1591, 1594, 1762, 1809, 1851, 1894, 1902-1915, 2058, 2888, 3068, 3190, 3201, 3225-3239, 3644, 3969, 4218, 4234, 4286, 4305, 4311-4323  
 E: 223, 229, 369, 371, 376, 393, 468, 498-517, 593, 1124, 1190, 1206, 1209, 1269, 1291-1323, 1366, 2044, 2063, 2181, 2192-2209, 2253, 2929, 2944, 2951-2960, 3057
- , structural studies  
 C: 634, 1801, 3112, 4237  
 E: 321, 507, 1295
- Sphingolipids (sulfatides, gangliosides, ceramides, cerebrosides)  
 C: 365, 367, 374, 377, 1632, 2947, 2957, 4123  
 P: 45, 47, 60, 168, 238, 241, 244, 257, 259, 441, 446, 447, 449, 450, 452-454, 584, 586, 588, 589, 594, 603  
 E: 1922
- Stabilizers, *see* Plasticizers and stabilizers
- Starch components  
 C: 276(review), 489  
 E: 98  
*see also* Polysaccharides
- Steroid alkaloids  
 C: 2080, 4412  
 P: 490
- Steroids  
 C: 384-402, 1646-1667, 2966-2982, 4135-4146  
 G: 242-253, 669-686, 1094-1104, 1615-1623  
 P: 65-74, 261-269, 463-466, 606-608  
 E: 265-268, 1099, 1100, 1935, 2784, 2785
- , general techniques and theory  
 C: 52, 384, 385, 401, 402, 1391, 1646-1649, 1655, 2966, 2979, 3179, 4690  
 G: 242, 677, 1615  
 P: 269, 390  
 E: 265, 266, 1805, 1900  
*see also* Androstane derivatives; Oestrogens; Pregnane derivatives; Sterols
- Sterols, techniques  
 C: 366, 395, 1643, 2979  
 G: 140  
 P: 69-72, 252, 465
- , applications, non-biological  
 C: 392, 393, 1179, 1661, 1664, 1665  
 G: 1622  
 P: 40, 68, 265, 466, 590

- Sterols, applications, biological  
 C: 391, 394, 1662, 1663, 2953, 4144, 4146, 4454  
 G: 184, 250-252, 668, 680-684, 1097-1101, 1110, 1118, 1279, 1283, 1620, 1621, 1623  
 P: 67, 464, 585
- Stimulants, *see* Psychostimulants
- Strontium, *see* Alkaline earths
- Strychnine group  
 P: 129
- Styrene polymers (inclusive pyrolysis products)  
 C: 56, 115, 135, 959(review), 963, 964, 2250-2252, 2257, 2258, 2270, 2274, 3520, 3525, 4010, 4540, 4544  
 G: 366, 925, 926  
 E: 1644, 1645, 3195
- Subcellular particles  
 E: 2570
- Sulphatides, *see* Sphingolipids
- Sulphides (thioethers) and polysulphides  
 G: 64, 283, 288, 849, 1139, 1652, 1658, 1813, 1882  
 E: 3178
- Sulphonamides  
 C: 881, 1096, 1108, 1181, 2416, 2418, 2426, 2428, 2433, 3001, 3543, 3651, 3657, 4650  
 G: 355, 402, 815, 816, 1256, 1773  
 P: 341, 344, 527  
 E: 1674, 1675, 2504, 2526, 3234
- Sulphonate esters  
 P: 95
- Sulphones  
 G: 1540
- Sulphoxides  
 C: 2103  
 G: 727
- Sulphur compounds, inorganic  
 C: 1236, 2591, 2597, 2599, 2602, 3828, 3830, 3840, 3850, 4814  
 G: 494, 898, 1363, 1364  
 E: 38(review), 2483, 2556, 2584
- , organic, techniques  
 C: 53, 820(review), 821, 824, 2107, 3389, 3390, 3707, 3717, 4433, 4436  
 G: 287, 289, 535  
 P: 301, 495  
 E: 829, 1621, 2482, 2483
- , —, acids and derivatives  
 C: 1709, 2102, 2104, 2105, 2897, 3017, 3391, 3392, 4437, 4438, 4778  
 G: 290, 1653  
 P: 300, 494  
 E: 2480, 2481, 2591, 3176, 3177  
*see also* Heterocyclics, sulphur
- Sulphur elemental  
 C: 1229, 2602, 4820  
 G: 1881
- Sulphur oxides  
 C: 3840
- Sunburn preventives  
 C: 444, 3537
- Surfactants, emulsifiers and detergents  
 C: 1197-1200, 1508, 2528-2531, 2532(review), 3778, 3779, 4179, 4527, 4773, 4774(review), 4775-4779  
 G: 230, 874, 1749, 1832  
 P: 545, 683(review)  
 E: 899-901, 946, 1655, 1709, 1859, 1949, 2558, 2559, 3260-3262
- Suspensions, various  
 C: 972, 1209, 1665, 2545, 2546, 3786, 3830, 4127, 4787, 4788  
 G: 1510, 1593  
 P: 249  
 E: 18, 833, 904, 905(review), 906, 907, 1566, 1713, 1716, 1751, 2561, 2563, 2565, 2608, 2612, 2613, 2785, 2880, 3264, 3269, 3270
- Sweeteners, artificial  
 C: 1128, 1188, 1190, 1191, 4758, 4759
- Sympathomimetics, *see* Adrenergic and adrenergic blocking agents
- ## T
- Tannins  
 C: 208, 231, 1207, 4045, 4741, 4749  
 E: 1881
- Tantalum, *see* Cations, inorganic analytical group III
- Technetium, *see* Cations, inorganic, analytical group IIb
- Tellurium, *see* Cations, inorganic, analytical group IIb
- Terpenes  
 C: 404-413, 1671-1677, 2986-2991, 4149-4151  
 G: 254-264, 687-698, 1107-1119, 1624-1636  
 P: 78, 273-276, 469-471, 612  
 E: 269, 1101
- , general techniques  
 C: 405, 409, 410(review), 1475, 2988  
 G: 687  
 E: 269
- , applications  
 C: 404, 408, 411, 412, 894, 1455, 1671-1677, 2448, 2986, 2987, 2990, 4150, 4676, 4767  
 G: 71, 255, 256, 419, 1108, 1110, 1114, 1486, 1624  
 P: 96, 106, 273-276, 355, 469, 470, 612  
 E: 1101
- , acids  
 C: 406, 2989, 2991, 4032  
 G: 218, 625, 661, 696, 1080, 1119
- , alcohols  
 C: 358, 407, 4149  
 G: 688, 689, 1107, 1116, 1210, 1625, 1626  
 P: 78, 470, 612
- , resins  
 G: 625
- Tetracyclines  
 C: 860, 861, 886, 1391, 2164, 2179, 3130(review), 3440, 3442, 3443, 3446, 3470, 4483, 4485  
 P: 505  
 E: 1628, 2490
- Textile dyes (including bleaching agents)  
 C: 3513, 4437, 4527, 4528  
 E: 849

- Thallium, *see* Cations, inorganic, analytical group I and IIa
- Thiamine, *see* Vitamins, B<sub>1</sub>
- Thiazoles, isothiazoles and thiazolones  
 C: 1486  
 G: 1840  
 P: 327
- Thioamides  
 C: 3395
- Thioglucosides  
 C: 823
- Thiols  
 C: 169, 1187, 1442, 2101, 2106, 2457, 2533, 2686, 3988, 4434, 4435, 4439, 4440, 4588, 4784  
 G: 288, 852, 1652  
 E: 830, 1622, 3178
- Thiophenes  
 C: 824  
 G: 1139, 1143, 1657
- Thiophosphates  
 C: 822
- Thioureas  
 G: 1210  
 P: 494
- Thorium, *see* Cations, inorganic, analytical group III
- Thyroglobulins and related proteins  
 C: 490  
 —, structural studies  
 E: 1969
- Thyreostatics  
 G: 405, 1258  
 E: 1680
- Tin, inorganic, *see* Cations, inorganic, analytical group III  
 —, organic  
 C: 2117, 3401, 3402  
 G: 298, 301, 309, 317, 319, 320, 533, 734-738, 740, 741, 750, 1147, 1149, 1151, 1665-1668, 1670-1672, 1807  
 E: 836, 1623
- Titanium, *see* Cations, inorganic, analytical group III
- Toad venoms, *see* Venoms, other
- Tobacco alkaloids  
 C: 789, 794, 3356, 4416, 4426  
 E: 825, 3172
- Tocopherols, *see* Vitamins, E
- Toxicological (and forensic) analysis, reviews and books  
 C: 2495, 3748, 4736, 4738  
 G: 1777  
 P: 553  
 E: 1690  
 —, general techniques  
 C: 1140, 1145, 1148, 1154, 1160, 1162, 2488, 2490, 2492, 3747, 3749, 3751, 3944, 4732  
 G: 178, 413, 728, 811, 823, 830, 831, 833  
 P: 81, 128, 534, 660  
 E: 780, 887, 888, 1689  
 —, applications  
 C: 390, 792, 828, 926, 1040, 1082, 1141, 1149, 1150, 1156, 1157, 1158, 1161, 1163, 1457, 1647, 1793, 2050, 2063, 2386, 2399, 2486, 2487, 2489, 2493, 2580, 2970, 2972, 3389, 3390, 3750, 3752, 3753, 3853, 4129, 4284, 4419, 4510, 4733, 4735, 4737, 4739, 4740  
 G: 117, 183, 195, 380, 416, 418, 464, 615, 656, 670, 674, 716, 720, 730, 824, 825, 828, 986, 1044, 1221, 1262, 1263, 1266-1268, 1548, 1556, 1559, 1573, 1644, 1650, 1783, 1853, 1868  
 P: 66, 90, 129, 349, 350, 650, 659  
 E: 270, 292, 300, 849, 876, 886, 889, 890, 1385, 1683-1685, 1691, 2171, 2309, 2536-2538, 2907, 3242-3245  
*see also* Proteins of blood, serum and blood cells
- Toxins (non-proteinous or unidentified)  
 C: 1148, 1149, 1150-1152, 1153(review), 1155, 2486, 2491, 2494, 2537, 2542, 3031, 3378, 3746, 4734  
 G: 632, 716  
 P: 350  
 E: 302, 1686, 1688, 1692  
*see also* Aflatoxins; Mycotoxins  
 —, proteinous  
 C: 1152, 1155, 1767, 1843, 1847, 1894, 1918, 2492, 3093, 3220, 4271  
 P: 85  
 E: 291, 292, 1209, 1957, 3004  
*see also* Proteins of glands and gland products; Venoms; individual enzyme types  
 —, —, structural studies  
 C: 3065
- Tranquilizers (anxiolytics)  
 C: 980, 1041, 1048, 1056, 1058, 1064, 1066, 1070, 1071, 1080, 1082, 1086, 2293, 2363, 2369, 2402, 2405, 2408, 2410, 2630, 2772, 2789, 3537, 3545, 3595, 3609, 3611, 3612, 3626, 3631, 4614, 4618, 4621, 4628  
 G: 394, 396, 798, 809, 810, 1245, 1246, 1249, 1252, 1255, 1770  
 P: 334, 337, 519, 523, 648, 659  
 E: 873, 875, 876, 1668, 2520
- Transferases, transferring one atom groups (methyl-, hydroxy-, formyl-, carbonyl-, carbamoyl-, amidine) and related transferases (E.C. 2.1.-.-)  
 C: 690(review), 1950, 1957, 3269, 3274, 3275, 4342, 4352  
 E: 560, 1353, 1354, 2239, 2242, 3079  
 —, —, structural studies  
 C: 3108  
 —, transferring acyl-and aminoacyl groups (E.C. 2.3.-.-)  
 C: 692(review), 1778, 1954, 1960, 3265, 3272, 4355  
 E: 561, 1355, 2244, 2245, 2247, 2342  
 —, —, structural studies  
 C: 3115  
 E: 1973, 1974  
 —, transferring glycosyl residues (hexosyl and pentosyl transferases) (E.C. 2.4.-.-)  
 C: 687, 688, 1949, 1952, 1955, 1958, 3278, 4349, 4354, 4358  
 E: 558, 559, 1350, 1359, 2248, 2983  
 —, —, structural studies  
 E: 1351, 1967  
 —, transferring alkyl or aryl groups (E.C. 2.5.-.-)  
 C: 684, 685, 689, 1947, 1948, 1951, 1953, 1956, 1959, 3267, 3268, 3270, 3276, 4351  
 E: 1357, 1485, 2980  
 —, —, structural studies  
 G: 472  
 —, transferring nitrogenous groups (E.C. 2.6.-.-)  
 C: 1834  
 E: 1358, 1352, 2238, 2240, 2241, 2982



Transferases, transferring phosphorus containing groups (E.C. 2.7.-.-)  
 C: 311, 693, 694, 695(review), 696-705, 1961-1974, 1976, 3145, 3270, 3279-3286, 3343, 4356-4361  
 E: 319, 391, 562(review), 563-573, 1122, 1131, 1203, 1242, 1360-1368, 1477, 1547, 2022, 2044, 2249-2259, 2363, 2984-2990, 3000, 3079

—, —, structural studies

C: 1783, 1787, 3109

E: 318, 319, 1368, 1968, 2259

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

C: 686, 3266, 3277, 4350, 4353

E: 557, 2246

—, other and incompletely identified

C: 3271

—, activity measurements

C: 691, 1707, 1778, 3264, 3273, 3370

P: 290

Triazoles

G: 1736

P: 557

Tropine alkaloids

C: 803, 1141, 1157, 2384, 3359, 3639, 4414, 4417

G: 282, 717

E: 3169

Trypsin inhibitor (antitrypsin)

C: 643, 4326

E: 653, 1326, 1907, 2963

Tuberculostatics

C: 2425, 3676, 3683, 4656

P: 120, 334

E: 278

Tungsten, see Cations, inorganic, analytical group IIb

## U

Ubiquinones (coenzyme Q)

C: 245, 358, 2127

P: 78

Uranium, see Actinides and uranium

Urea and urea derivatives

C: 430, 4180

see also Thiourea

Urethanes and polyurethanes (including pyrolysis products)

G: 786, 790, 1744

Uric acids

C: 2063, 3332

E: 2315, 3032, 3037, 3174

## V

Vanadium, see Cations, inorganic, analytical group IIb

Vasoconstrictors

C: 424, 2371, 3586

E: 2473

Vasodilants (including coronar vasodilants)

C: 797, 1016, 1022, 1026, 1027, 1452, 2308, 2321, 2344, 3318,

3563, 3566, 3574, 3587, 4583, 4584

G: 381, 972, 1235, 1760

P: 117

E: 2515, 3171

Venom, snake

C: 619, 1893-1895, 4306-4308

E: 2155

—, —, structural studies

C: 1759

—, other

C: 3223, 4309

E: 2169

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

Vinca alkaloids

C: 797

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

C: 833-854, 2121-2147, 3411-3433, 4452-4470

G: 1675, 1676

P: 304, 498-501, 627, 628

E: 837-840, 1626, 3184-3186

—, techniques for fat soluble vitamins

C: 2124, 4452

P: 304, 498

—, techniques for water soluble vitamins

C: 2124

P: 304, 498

E: 277, 840, 3185

—, A group (including synthetic retinoids)

C: 655, 834, 836, 837, 840, 842-845, 848, 851, 947, 1179, 2121-2123, 2126, 2133, 2135, 2136, 2145, 2509, 3411-3413, 3415, 3417, 3419, 3421, 3422, 3425-3427, 3430, 3480, 4452, 4460, 4467-4469, 4530

G: 1156, 1157

P: 667

E: 838, 839, 1626

see also Pigments, natural (and fluorescent substances)

—, B<sub>1</sub>

C: 835, 2137, 2140, 4453, 4461

P: 347, 499, 501

—, B<sub>2</sub> and other flavins

C: 2128, 2137, 2140, 4461, 4660

P: 347, 501

—, B<sub>3</sub> group

C: 4461

—, B<sub>6</sub>

C: 2140, 3431, 4453, 4461

P: 334, 347, 501

—, B<sub>12</sub> group (Cobalmin)

C: 2140, 4350, 4456

P: 347, 501

—, C group

C: 833, 849, 852, 853, 2125, 2130, 2132, 2142, 2143, 2147, 2915, 3424, 4453, 4461

P: 500

E: 837, 3184

—, D group

C: 2131, 2134, 2141, 2144, 2146, 3428, 3429, 3432, 4462, 4463, 4466, 4470

G: 306, 307, 1676

## Vitamins, E

C: 382, 838-840, 842, 843, 846, 851, 854, 1176, 1179, 2129, 3414, 3537, 4452, 4454, 4455, 4457-4459, 4465, 4467, 4468

P: 591, 627, 628

## —, H

C: 1346

## —, K group

C: 3420, 3423

P: 499

Volatiles, flavours, odours, *see* Organoleptics

**W**

## Warefare agents

G: 293, 294, 729, 730, 1323, 1660-1662

## Water

G: 481, 515

## Water analysis and pollution

C: 160, 198, 240, 414, 905, 906, 909, 910, 914, 917, 920, 1149, 1194-1196, 1211, 1224, 1230, 1500, 1503, 1514, 1605, 1619, 1679, 1681, 2117, 2184, 2185, 2189-2191, 2193, 2195-2197, 2205, 2206, 2213, 2214, 2217, 2218, 2225, 2226, 2228, 2229, 2231, 2232, 2520-2524, 2526, 2527, 2529, 2537, 2554, 2560, 2568, 2603, 2587, 2591, 2716, 2760, 2764, 2793, 2812, 2815, 2817, 2841, 2905, 2994, 3363, 3373, 3376, 3405, 3477, 3489, 3498, 3544, 3657, 3769, 3770, 3772-3775, 3791, 3833, 3844, 3853, 3919, 3962, 4024, 4028, 4029, 4060, 4118, 4442, 4503, 4504, 4506, 4515, 4517, 4520, 4523, 4527, 4769, 4771-4773, 4819

G: 120, 132, 145, 154, 157, 159, 160, 167, 168, 182, 186, 187, 191, 192, 194, 196, 202, 208, 229, 236, 269, 286, 297, 312, 314, 322, 333, 337, 349, 352, 359, 445, 449-459, 488, 577, 580, 594, 607, 617, 618, 620, 624, 639, 733, 738, 749-752,

759, 766, 774, 776, 778, 853, 859-863, 865-868, 870, 878, 886, 892, 961, 1022, 1025, 1034, 1047, 1051, 1062, 1124, 1139, 1161, 1165-1167, 1176, 1177, 1179, 1189, 1191, 1193, 1201, 1202, 1204, 1313-1315, 1317, 1318, 1356, 1481, 1509, 1525, 1526, 1529-1531, 1533, 1539, 1546, 1547, 1549, 1586, 1593, 1639, 1658-1660, 1667, 1677, 1678, 1684, 1689, 1692, 1695, 1698, 1720, 1727, 1728, 1805, 1813, 1818, 1819, 1821-1824

P: 149, 634, 681, 682, 687

E: 845, 846, 916, 1050-1052, 1103, 1624, 1705, 1706, 1731, 1890, 1939, 2492, 2494, 2498, 2556, 2557, 2590, 2745, 3256, 3257, 3261, 3284

*see also* individual polluting compounds

## Water analysis and pollution, reviews

C: 1172, 2186, 2187, 2525, 3771, 4164, 4770

P: 313

E: 38, 2791

## Waxes

C: 1175, 2806

G: 141, 216, 346, 486, 542, 646, 1118, 1119, 1335, 1339, 1685

P: 408

**X**

Xanthine alkaloids, *see* Purine alkaloids

**Z**

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

Zirconium, *see* Cations, inorganic analytical group III