

Index

a

- Absorption, 2/939
 - atomic absorption spectrometry (AAS), 2/853
 - hydride generation atomic absorption spectrometry (HG-AAS), 2/864
 - solution, 1/182, 3/1057
 - spectra of arsenazo I, 2/787
 - spectrum of ninhydrin and its reaction products, 2/571
 - UV absorption, 1/259
- Accelerator, 2/1168
- Acclaim HILIC-10, 2/702
 - separation of hydrophilic pharmaceuticals, 2/718
- Acclaim Mixed-Mode HILIC-1, 2/702
 - comparison with LiChrosorb Diol, 2/703
- Acclaim Mixed-Mode silica columns, structural & technical properties of, 2/702
- Acclaim Mixed-Mode WAX-1, 1/241, 2/646, 2/659, 2/701, 2/725, 3/1042, 3/1044, 3/1226, 3/1278, 3/1318
- Acclaim Mixed-Mode WCX-1, 2/664, 2/701, 3/1253
 - comparison with Acclaim 120 C8, 2/666
 - RP mode *vs.* HILIC mode, 2/701
 - separation of antidepressant drugs, 2/667
 - separation of quaternary ammonium compounds, 2/668
 - separation of tetrabutylphosphonium bromide, 2/668
- Acclaim OA, 3/1202
 - separation of acrylic acids, 2/716
 - separation of lactic acid, ascorbic acid, and acetic acid, 2/715
- Acclaim Polar Advantage II (PA2), 2/832, 3/1307, 3/1310
- Acclaim Surfactant, 3/1288

- Acclaim Surfactant Plus, 2/619, 2/622, 2/626, 2/628, 3/1182, 3/1188, 3/1289f
- Acclaim Trinity P1, 2/669, 2/701, 2/827, 2/829, 3/1377
 - comparison with Acclaim Trinity P2, 2/678
 - comparison with ZIC-HILIC, 2/704ff
 - schematic illustration of, 2/669
 - separation of pharmaceutical counterions, 2/673
 - separation of sodium and chloride ions, 2/672
- Acclaim Trinity P2, 2/676, 2/701
- Acclaim Trinity Q1, 2/675
- Accucore C8, 3/1172
- Accucore C18, 3/1175
- Accucore HILIC, 2/688, 3/1253
- Accuracy, 2/833, 2/837, 2/938, 2/959
- Acebutulol, 1/647
- Acesulfam-K, 3/1221, 3/1223, 3/1264
- Acetaldehyde, 2/560, 2/757
- Acetate, 1/50, 1/192, 2/811, 2/846, 2/890, 3/1398
- Acetaminophen, 2/664, 2/718
- Acetic acid, 1/243, 2/534, 2/551, 2/662, 2/813, 3/1039, 3/1078, 3/1201
- Acetolysis, 1/319
- Acetone, 3/1128
- Acetonitrile–water pressure test, 1/123
- Acetylcholine, 1/439, 2/610, 3/1237
- N-Acetylgalactosamine, 1/295, 1/313, 1/316, 1/326, 1/329
- N-Acetylglicosamine, 1/313, 1/326, 1/329
- N-Acetylmannosamine, 1/336
- N-Acetylneurameric acid, 1/316, 1/326, 3/1357, 3/1359
- Acetylsalicylic acid, 2/664
- Acid blue 40, 2/657
- Acid blue 113, 2/657
- Acidification, 2/795

- Acid red 114, 2/657
- Acid texturization bath, 3/1142
- cis, trans*-Aconitate, 1/82, 1/125, 1/234, 2/664
- Acridine orange, 2/657
- Acrylic acid, 1/89, 2/538, 2/552f, 2/716, 3/1078
 - oligomers, 2/715, 3/1292
- Actilight-95, 3/1231
- Activation energy, 2/771
- A/D conversion, 2/941
- Additives
 - inorganic, 2/596
 - organic, 1/437, 3/1162ff, 3/1224
- Adenine, 2/722
- Adenosine, 1/245, 2/723
 - diphosphate, 1/247, 2/724, 2/922, 3/1352
 - monophosphate, 1/247, 2/724, 3/1352
 - triphosphate, 1/247, 2/724, 2/922, 3/1352
- Adipic acid, 1/235, 2/550, 3/1039
- Adsorption, 2/533, 2/936
 - behavior, 1/263
 - effects, 3/1378
 - process, 2/534
 - nonionic, 1/4, 1/16, 1/153, 1/217, 2/642
- Aldulteration, fruit juice, 3/1206
- Aerosol, 2/672, 3/1053
 - based detection methods, 2/810
 - based detectors, 2/811, 2/820
 - charge detection (ACD), 2/822
 - particles, 3/1063
- Aggregated particle monolith, 1/3
 - schematic of, 1/112
- Agmatine, 3/1359
- Air
 - analysis, 1053ff
 - clean room, 3/1145
 - pollution, 3/1054
 - quality monitoring, 3/1061
 - sampling devices, 3/1060
- Alanine, 1/342, 1/345, 1/349, 2/565, 2/815, 2/838
- Alcohols, 1/331, 2/533, 2/535, 2/558, 2/622, 3/1209, 3/1412
 - amino alcohols, 1/416
 - biologically produced, 3/1401
 - monohydric, 2/558
 - polyhydric, 2/561
- Aldehydes, 2/533, 2/558f, 2/570, 2/752
- Alditols, 1/329
- Alendronate, 1/256
- Aliquat 336, 3/1383
- Aliquat-based ILs, 3/1383
- Aliquat cation, 3/1183
- Alizarin red S, 2/657
- Alkali metals, 1/404, 1/406, 1/413, 1/417, 1/420, 1/437, 3/1080, 3/1108, 3/1161, 3/1203, 3/1223, 3/1333, 3/1344, 3/1391, 3/1401, 3/1413
- Alkaline-earth metals, 1/9, 1/302, 1/406, 1/413, 1/420, 1/437, 1/448, 2/745, 2/778, 2/785f, 2/867, 3/982, 3/1048, 3/1080, 3/1108, 3/1161, 3/1203, 3/1223, 3/1238, 3/1333, 3/1344, 3/1371, 3/1391, 3/1401, 3/1413
- Alkaline fusion, 3/1452
- Alkaline phosphatase, 1/356
- Alkaloids, 2/592, 2/611ff, 2/654
- Alkanedisulfonic acids, 1/252
- Alkanesulfonates, 2/583, 2/592, 3/1177
- Alkanesulfonic acids, 1/252, 2/583
- Alkanolamines, 1/423, 1/439, 2/762f, 3/1282, 3/1394
- Alkenesulfonates, 2/615
- Alkylamines, 1/341, 1/422f, 2/761
- Alkylbenzene sulfonates (ABS), 2/615, 2/623f, 3/1181, 3/1190, 3/1177
- Alkylbenzyl-dimethyl-ammonium, 3/1188
- Alkyl-dimethyl-benzylammonium chloride, 2/628f, 3/1177
- Alkylether sulfates, 3/1177, 3/1192
- 1-Alkyl-3-methylimidazolium, 3/1378
- Alkyl phosphates, 1/244f
- Alkyl sulfates, 1/244, 2/615, 2/622, 3/1177
- Alkyl sulfonates, 2/595, 2/615, 3/1167, 3/1187, 3/1190
- Alkytrimethylammonium, 2/626
- Allobarbital, 2/637, 2/649
- Allo-isoleucine, 2/567
- Allsep A-2 Anion, 1/60
- Allsep Anion, 1/56, 1/59
- Alltima Amino, 2/697
- Alltima HP Cyano, 2/693
- Alltima HP Silica, 2/688
- Allure PFP, 2/833, 3/1308
- Allylsulfonic acid, 3/1161
- Alpha-1-antitrypsin, 2/843
- Alumina, amphoteric character of, 1/141
- Aluminum, 1/485, 2/785f
 - corrosion, 3/1123
- Ambient ion monitor (AIM), 3/1060
- Amide-bonded silica, 2/696
- Amidosulfonic acid, 1/10, 1/232, 3/1110
- Amikacin, 3/1306
- Amines, 1/97, 1/182, 1/418, 1/487, 1/491, 1/514, 3/1283
 - aliphatic, 1/448, 1/503
 - aromatic, 1/409
 - biogenic, 1/423, 1/496, 3/1218, 3/1256

- catecholamines, 2/612, 3/1356
- diamines, aliphatic, 1/423
- hydrophobic, 1/423
- polyamines, 1/496f
- polyvalent, 1/423
- Aminex 50W-X4, 2/542
- Aminex HPX-85H, 2/558
- Aminex HPX 87H, 2/540, 2/548, 2/845
- Amino acids, 1/331, 1/335, 1/341ff, 1/350, 2/533, 2/561ff, 2/713, 2/763, 2/833f, 2/837, 3/1333
 - acid coinjection, 1/346
 - valve scheme for, 1/346
 - aromatic, 1/150
 - carbohydrate interference, 1/344, 1/1334
 - detection, 2/767
 - dissociation behavior, 1/149, 2/562
 - elution order, 1/343
 - hydrolysis protocols, 1/348, 2/573
 - gradient program for, 1/342
 - O-phosphorylated, 1/348
 - physiological, 2/566
 - sample preparation, 2/572f
- Amino alcohols, 1/416
- α -Aminobutyric acid, 2/569
- γ -Aminobutyric acid, 2/568
- 2-[(Aminocarbonyl)oxy]-*N,N,N*-trimethyl-1-trimethylethanaminium chloride (Carbachol), 3/1284
- 2-[(Aminocarbonyl)oxy]-*N,N,N*-trimethyl-1-propanaminium chloride (Bethanechol), 3/1284
- 7-Aminocephalosporic acid, 2/656
- 5-Amino-2,3-dihydro-1,4-phthalazindione (Luminol), 1/484, 2/550, 2/849, 3/1100
- 2-(2-Aminoethoxy)ethanol, 1/425
- 2-(2-Aminoethyl)pyridine, 1/506
- Aminoglycoside antibiotics, 2/817ff, 2/830
 - assays, 3/1312
- p*-Aminohippuric acid, 3/1338
- 3-Amino-1-hydroxypropylidene-1,1-bisphosphonate (Pamidronate), 1/256, 3/1312
- Aminomethanephosphonic acid (AMPA), 2/805, 2/893
- AminoPac PA10, 1/341, 1/348
- AminoPac PC-1, 2/564
- 5-Amino-1-pentanol, 1/425
- 3-Aminophthalate, 2/549f
- Aminopolycarboxylic acids, 1/94, 1/238f, 2/639, 3/1355
- Aminopolyphosphonic acids, 1/94, 1/259f
- Aminopropyl-bonded silica, 2/696
- 2-Aminopyridine, 1/506
- Amino sugars, 1/282, 1/295, 1/325, 1/343, 1/350, 2/834
 - *N*-acylated, 1/295
 - de-*N*-acylated, 1/326
- AminoTrap column, 1/297f, 1/327
- Aminotris-(methylenephosphonic acid) (ATMP), 1/94, 1/267
- Amitriptyline, 2/664, 2/667
- Amlodipine, 3/1293
- Ammelide, 3/1252
- Ammeline, 3/1252
- Ammonia, 2/565
- Ammonium, 1/297, 1/301, 1/385, 1/406, 1/411, 1/420, 1/430, 1/443, 1/547, 1/486, 1/521, 2/628, 2/675, 2/772, 2/842, 3/984, 3/990, 3/1044, 3/1076, 3/1147, 3/1227, 3/1373, 3/1421
 - column switching technique, 3/1045
- Ammonium compounds, quaternary, 1/30, 1/409, 1/503, 2/583, 3/1284
- Amobarbital, 2/637, 2/649
- Amperometry, 1/219, 1/239, 1/328, 2/547, 2/612, 2/713, 2/745, 2/748ff
 - 3D, 1/3
 - DC, 2/748f
 - integrated, 2/759f, 2/817, 3/1219
 - pulsed, 2/749ff
- Ampicillin, 2/761f, 3/1229, 3/1297
- Amylamine, 3/1283
- Amylopectins, 1/317, 1/319
 - chain length distribution of, 1/321
- Amylose, 1/317, 1/320
- AN1, 1/43
- AN2, 1/43
- AN300, 1/43
- Analysis
 - air, 3/1053ff
 - clean room, 3/1145
 - MARGA, ambient air monitoring system, 3/1061
 - of chemicals, 2/556ff, 3/1111ff
 - function, 2/946
 - online, 3/1114
 - quantitative, 2/935ff
 - soil, 3/1048
 - time, 1/2, 1/8
- Anhydro sugars, 1/290f
- Anilines, 1/506
- Anions
 - halide, 1/176f, 1/187
 - inorganic
 - survey, 1/176f

- – UV measuring wavelengths, 2/783
- nonmetal, 1/180
- nonpolarizable, 1/138
- organic, 1/227ff
- oxyhalide, 1/176
- peroxoborate, 3/1180
- polarizable, 1/85, 1/176, 1/216ff
- polyvalent, 1/94, 1/238, 1/254ff
- standard, 1/40
- surface-active, 2/615ff
- surface-inactive, 2/599ff
- trap column (ATC), 1/272, 3/1095
- – high-capacity (ATC-HC), 3/1120
- Anion exchangers
 - high-capacity, 1/36
 - – cellulose, 1/36
 - – polymer-based, 1/37ff
 - – silica-based, 1/36
 - low-capacity
 - – nanobead-agglomerated, 1/63ff
 - – polymethacrylate, 1/54ff
 - – poly(styrene-*co*-divinylbenzene) (PS/DVB), 1/37ff
 - – polyvinyl alcohol, 1/60ff
 - – silica-based, 1/126ff
 - – polymeric monolithic, 1/119ff
 - Anomer, 1/316, 1/328, 2/697
 - Anserine, 2/566
- 9-Anthryldiazomethane (ADAM), 2/810
- Antibiotics
 - aminoglycoside, 2/817, 3/1297ff
 - β -lactam, 3/1295
 - sulfur-containing, 3/1297
- Antibody, monoclonal, 1/298, 1/323, 1/510ff, 2/576, 2/842, 3/1361
- Antibody-drug conjugates, 2/576
- Antidiabetic drugs, 2/719, 2/835
- Antigen binding site, 1/511
- Antimony(III)/(V), 2/864
- Antimony speciation, 2/864
- AOX/AOS, 3/1066
- Apex II Diol, 2/691
- Applications
 - agrochemical, 2/890
 - biotechnology, 3/1325ff
 - building material industry, 1/439
 - chemical industry, 2/890, 3/1367f
 - clinical chemistry, 3/1336ff
 - electroplating industry, 3/1148ff
 - environmental analysis, 3/977ff
 - food and beverage industry, 3/1194ff
 - household product industry, 3/1175ff
 - mineralogy, 3/1421f
- petrochemical industry, 1/439, 3/1393ff
- pharmaceutical industry, 3/1271ff
- power plant chemistry, 3/1068ff
- pulp & paper industry, 3/1417ff
- semiconductor industry, 3/1114ff
- Approximation test, acc. to Mandel, 2/952
- Aprobarbital, 2/637
- Arabinose, 1/293, 2/915, 3/1260
- Arabitol, 1/288, 3/1327f, 2/915, 3/1327
- Arginine, 1/342, 1/345f, 2/565, 2/766, 2/837, 3/1325, 3/1334
- Argininosuccinic acid, 2/566
- Arogenic acid, 1/350
- Arsenate, 1/87, 1/180, 2/859, 2/923f, 3/1057
- Arsenazo I
 - see *o*-(1,8-Dihydroxy-3,6-disulfo-2-naphthylazo)benzenearsonic acid
- Arsenazo III
 - see Bis-(2-arsono-benzeneazo)-2,7-chromotropic acid
- Arsenic speciation, 2/858
- Arsenite, 1/179, 2/547, 2/744, 2/859f, 2/923ff
- Arsenobetain, 2/859f, 2/923
- Arsenocholine, 2/860
- Arsonium compounds, 2/634
- Arylalkylamines, 2/609, 2/611, 2/615
- Aryl sulfonates, 2/617, 2/619
- Asahipac NH₂P-50 4E, 2/711
- Ascentis ES Cyano, 2/693
- Ascentis Express ES-Cyano, 2/693
- Ascentis Express HILIC, 2/688
- Ascentis Silica, 2/688
- Ascorbic acid, 1/243, 2/662, 3/1203, 3/1236, 3/1322
- Asparagine, 1/342, 1/528, 2/565, 2/815, 3/1334
 - deamidation, 2/518
- Aspartame, 3/1223f
- Aspartic acid, 1/342, 2/566, 2/573, 2/815, 2/837f
- Aspirin, 2/652f, 2/718
- Asymmetry factor, 1/15, 3/1028
- Atlantis, 2/688
- Atmospheric-pressure chemical ionization (APCI), 2/822
- Atmospheric-pressure ionization (API), 2/867
- Atomic absorption spectrometry (AAS), 2/853, 2/975, 3/1157, 3/1374
- Atropine, 2/592, 2/612
- Audit Trail, 2/942
- Aurintricarboxylic acid, 1/492
- AutoDilution, 1/1431f, 3/1432f
- AutoNeutralization, 3/1093, 3/1135f, 3/1444, – instrumental setup, 3/1445

AutoPrep, 3/1082, 3/1118f
 Autosampler
 – AS-AP, 3/1432
 – sample pH and conductivity accessory, 3/1432
 – AS-DV, 3/1426
 – large-volume, 3/1072, 3/1098
 Average run length, 2/965
 Azide, 1/178, 2/801, 3/1279, 3/1343
 2,2-Azo-bis-isobutyronitrile (AIBN), 1/120, 1/360

b

Band broadening
 – see peak broadening
 Barbital, 2/613ff, 2/637, 2/649
 Barbiturates, 2/613, 2/636, 2/649f
 Barbituric acid, 2/613, 2/649
 Barium, 1/301, 1/413, 1/441, 2/847, 3/1244
 Bath, galvanic
 – acid copper, 3/1156, 3/1167, 3/1170, 3/1172
 – chromic acid, 3/1152, 3/1161
 – copper, electroless, 3/1149
 – copper pyrophosphate, 3/1149, 3/1163
 – copper sulfate, electrolytic, 3/1149
 – gold, 3/1158
 – LeaRonal PC Gleam, 3/1171
 – nickel, electroless, 3/1150
 – nickelborohydride, 3/1165
 – nickel/iron, 3/1158, 3/1163
 – nickel sulfamate, 3/1151
 – nickel/zinc, 3/1151
 – Sel-Rex Cubath, 3/1171
 – texturization, 3/1142
 – tin/lead 3/1143
 – zinc, 3/1159
 Battery electrolytes, 3/1391
 Benzalkonium chloride, 3/1289f
 Benzathine penicillin, 3/1295
 Benzene, 2/551, 2/617, 2/648, 3/1281
 1,2-Benzenedicarboxylate, 1/242, 2/646
 1,3-Benzenedicarboxylate, 1/242, 2/646
 1,4-Benzenedicarboxylate, 1/242, 2/646
 m-Benzenedisulfonate, 2/647
 o-Benzenedisulfonate, 2/647
 Benzenehexacarboxylate, 1/242, 2/646
 – see Phytic acid
 Benzenepentacarboxylate, 1/242, 2/646
 Benzenesulfonate, 2/618, 2/647, 3/1281, 3/1293
 1,2,4,5-Benzenetetracarboxylate
 (pyromellitate), 1/242, 2/645
 1,2,3-Benzenetricarboxylate, 1/242, 2/646
 1,2,4-Benzenetricarboxylate, 2/646
 1,3,5-Benzenetricarboxylate, 1/242, 2/645
 1,3,5-Benzenetrisulfonate, 2/647
 Benzoate, 1/211, 1/235, 2/543, 2/599, 2/645, 2/739, 2/809, 2/901, 3/1079, 3/1221, 3/1223f, 3/1255
 Benzylalcohol, 2/648
 Benzylamine, 2/665
 Benzylpenicillin (penicilline G), 3/1295
 4-Benzylpyridine, 1/506
 Beryllium, 3/1046
 Besylate
 – see Benzenesulfonate
 Betasil CN, 2/693
 Betasil Diol, 2/691
 Betasil Silica, 2/688
 Bethanechol
 – see 2-[(Aminocarbonyl)oxy]-N,N,N-trimethyl-1-propanaminium
 Beverages, 1/115, 1/284, 3/1197ff, 3/1327
 Bifidus factor, 3/1248
 Biodiesel, 3/1410f
 Bioethanol, 3/1411
 Biofuels, 1/301, 3/1409f, 3/1416
 2,2'-Bipyridine, 1/506
 Bis(2-aminopropyl)amine, 1/498
 Bis-(2-arsono-benzeneazo)-2,7-chromotropic acid (Arsenazo III), 1/485, 2/786
 Bis(2-chloroethyl)ethylamine (HN1), 2/903
 Bis(2-chloroethyl)methylamine (HN2), 2/903
 Bisphosphonates, 1/255f, 2/836, 2/901, 2/906, 3/1312f
 Bis(trifluoromethyl sulfonyl)imide, 3/1378, 3/1387
 Blank value, 2/947, 2/961, 2/967, 3/1080
 Bleaching activator, 1/260, 3/1181
 Bleaching agent, 3/1175, 3/1180
 BlueShell HILIC, 2/688
 Bluespher Diol, 2/691
 Bluespher Si, 2/688
 Boiling water reactor (BWR), 3/1095, 3/1114
 Boltzmann's law of energy distribution, 2/736
 μBondapak CN, 2/693
 Borate, 2/543, 2/545f, 2/771, 2/976, 3/1001, 3/1074, 3/1157, 3/1208
 BorateTrap column, 1/299
 Borophosphorusilicate glass film, 1/186, 3/1140
 Bovine serum albumin, 1/354, 3/1344
 Brightener, 3/1162, 3/1165ff
 Brine, 3/1367, 3/1369f, 3/1373

- Bromate, 1/44, 1/71, 1/104, 1/240, 2/788, 2/795, 2/875, 2/998ff, 3/1015, 3/1400
 – survey of IC techniques, 3/999
- Bromide, 1/31, 1/34, 1/69, 1/77, 1/100, 1/113, 1/152, 1/218, 2/590, 2/643, 2/673, 2/783, 2/795, 3/979, 3/1019, 3/1042, 3/1083, 3/1264, 3/1273, 3/1337, 3/1340, 3/1367
 – sorption enthalpy, 1/35
- p*-Bromobenzenesulfonate, 2/648
- p*-Bromobenzoate, 2/645
- Bromocresol purple, 2/657
- Builder, 3/1175, 3/1178
- Butabarbital, 2/637, 2/649f
- 2,3-Butanediol, 3/1327, 3/1329
- 1,4-Butanediol diglycidyl ether (BDDGE), 1/98f, 1/122
- 1,4-Butanedisulfonic acid, 3/1274
- Butanesulfonic acid, 2/612f, 2/620
- n*-Butanol, 2/559
- 4-Butene-18-crown-6, 1/88, 1/132
- n*-Butylacetate, 3/1132
- iso*-Butylamine, 1/503
- n*-Butylamine, 1/503
- sec.*-Butylamine, 1/503
- tert.*-Butylamine, 1/503, 3/1283
- Butylbenzene, 2/660
- tert.*-Butyl-ethane-1,2,2-trisphosphonic acid, 2/265
- 1-Butyl-3-methylimidazolium, 2/897, 3/1379
- n*-Butyric acid, 1/83, 2/537, 2/638, 2/890, 3/1039, 3/1211, 3/1397
- c**
- Cadaverine, 1/424, 1/496, 3/1218f, 3/1256, 3/1259
 Cadmium, 1/182, 1/476, 1/481, 1/997, 3/1047, 3/1077
 – reduction method, 3/1233
- Caffeic acid, 1/12
- Caffeine, 1/414, 2/654, 2/664, 2/852, 3/1223
- Caffeoylquinic acid, 3/1262
- Calcium, 1/411, 1/420, 2/785f, 2/984, 3/1272, 3/1281, 3/1367, 3/1371f
- Calibration, 2/799, 2/938, 2/946ff, 2/957f, 3/1071
 – area normalization, 2/955
 – basic, 2/946
 – external standard, 2/957
 – function, 2/946, 2/947ff
 – internal standard, 2/956
 – standard addition, 2/958f
- Capacity factor, 1/18ff, 1/20, 1/23, 1/31, 1/268, 1/460
- Capacity ratio, 1/23, 1/213
- Capcell Pak C18 MG II, 3/1269
- Capillary electrophoresis, 1/3, 1/256, 1/324
- Capric acid, 2/638
- Caproic acid, 2/537, 2/638
- Caprylic acid, 2/638
- CAPS
- see 3-(N-Cyclohexylamino)-1-propanesulfonic acid
- CAPSO
- see 3-(Cyclohexylamino)-2-hydroxy-1-propanesulfonic acid
- Carbachol
- see 2-[(Aminocarbonyl)oxy]-*N,N,N*-trimethylethanaminium
- Carbohydrates, 1/231, 1/281ff, 1/296, 1/311, 1/324, 1/345, 2/753, 2/907ff, 3/1204, 3/1230, 3/1327, 3/1347, 3/1415
 – acidity, 1/330
 – derived from glycoproteins, 1/320
 – high concentration kit, 3/1416
 – membrane desalter (CMD), 2/841
 – monosaccharides, 1/290ff, 3/1363, 3/1421
 – oligosaccharides, 1/308ff, 2/917f, 3/1212
 – phosphoric acid esters, 1/307
 – polysaccharides, 1/314ff
 – sugar alcohols, 1/287ff
- Carbonate, 1/31, 1/41, 1/74, 1/103, 1/143, 1/166, 1/194, 1/272, 2/542ff, 2/597, 2/745, 2/800, 3/981, 3/1157, 3/1130, 3/1157, 3/1179, 3/1275, 3/1410, 3/1444
 – gradient, 1/156
 – removal device (CRD)
 – CRD 200, 1/275
 – CRD 300, 1/105, 1/148, 1/166, 3/1002, 3/1091
- Carbon dioxide, 1/757
 – removal, 1/166
- Carbonic acid, 2/773, 2/779, 3/1075
- Carbonic anhydrase, 1/354
- Carbonylbisphosphonic acid, 3/1312
- Carbonylphosphonate, 1/257, 3/1311
- CarboPac MA1, 1/287
- CarboPac PA1, 1/282
- CarboPac PA10, 1/284, 1/296f
- CarboPac PA20, 1/284, 1/300, 1/325
- CarboPac PA100, 1/284, 1/316
- CarboPac PA200, 1/284, 1/316
- CarboPac SA10, 1/284, 1/301
- Carboxylic acids, 1/228ff, 2/552, 2/757
 – aliphatic, 1/228, 2/644, 3/1038
 – aromatic, 1/234, 2/644
 – dicarboxylic, 3/1038

– hydroxycarboxylic, 1/234, 3/1038
 Carboxypeptidase B, 1/511f
 Carnithine, 2/568
 Carprofen, 2/652
 Carrez precipitation, 3/1231
 Carrier, 3/1162
 Caseins, 1/357, 3/1232
 Catecholamines, 2/612, 3/1356
 Cation
 – exchange process, 1/401
 – exchanger, 1/401ff
 – grafted, 1/404f
 – nanobead-gglomerated, 1/434ff
 – silica-based, 1/439f
 – solvent influence, 1/1/284
 – surface-sulfonated, 1/402
 – weak acid, 1/405, 1/465
 – hydroxymethylene, 1/39
 – simultaneous analysis, 1/405ff, 1/432f,
 1/440ff, 3/982
 – surface-active, 2/626ff
 – surface-inactive, 2/609ff
 Cavity effect, 1/175, 1/199
 Cefadroxil, 2/656
 Cefazolin, 2/656, 3/1299
 Cefotaxime, 2/656
 Cell
 – amperometric, 2/743, 2/754
 – charge detector, 2/772, 2/775
 – bead-based, 2/772
 – chloralkali, 3/1367
 – conductivity, 2/553, 2/742, 2/749
 – constant, 2/739
 – coulometric, 3/1174
 – ED, 2/768
 – for microextraction, 3/1125
 – pulsed amperometric, 2/746, 2/760,
 2/910
 – scintillation, 2/847
 Celllobiose, 1/302, 3/1328, 3/1415, 3/1420
 Cellotriose, 3/1421
 Cellulose, 1/319
 – hydrolysate, 3/1422
 Cement analysis, 3/1421
 Cephalexin, 2/656, 3/1299
 Cephaloridine, 2/656
 Cephalosporins, 2/656, 3/1298
 Cephalosporin C, 2/656, 3/1299
 Cephalotin, 2/656
 Cephapirin, 2/761, 3/1229
 Cerium, 1/488, 1/494
 Cerium(III)/Cerium(IV), 2/806
 Cesium, 1/447, 2/808

Cetylpyridinium
 – see Hexadecylpyridinium
 Cetyltrimethyl ammonium, 2/590, 2/632,
 3/1190
 Charge density, 2/737
 Chelation, 1/490
 – concentration, 3/1374
 Chelex 100, 1/493
 Chemiexcitation quantum yield, 2/848
 Chloramine T, 2/571
 Chlorate, 1/71, 1/104, 1/113, 2/599, 2/876,
 3/986, 3/1418
 Chloride, 1/69, 1/100, 2/557f, 2/673, 2/745,
 2/783, 2/798, 3/979, 3/1021, 3/1091, 3/1376,
 3/1418, 3/1422
 Chloride/nitrite concentration ratio, 3/992
 Chlorination, of drinking water, 3/997
 Chlorine dioxide, 1/240, 2/790, 3/986, 3/1021,
 3/1419
 Chlorite, 1/71, 1/104, 2/748, 2/789f, 2/876,
 3/986, 3/1418
 – removal, 2/791, 3/1007
p-Chlorobenzenesulfonate, 1/109f, 2/645,
 3/1028
 Chlorocholine, 2/610
 Chlorogenic acid, 1/12, 3/1262
 Chloromethyl methylether, 1/39
 Chlorpheniramine, 2/852
 Choline, 1/439, 2/609, 2/673, 3/1237, 3/1282
 Chondroitin sulfate, 1/241
 Chromate, 1/83, 1/108, 1/253, 1/483, 2/797,
 1108, 3/1152
 Chromatogram, illustration of, 1/7, 1/15
 Chromatography
 – affinity, 1/505, 1/512
 – data management system, 1/9, 2/775, 2/942,
 3/1433
 – client/server architecture, 2/942f
 – gas, 1/1
 – high-performance liquid, 1/1
 – hydrophilic interaction liquid, 2/683ff
 – factors affecting retention, 2/707
 – separation mechanism, 2/685
 – hydrophobic interaction (HIC), 2/505
 – ion, 1/1, 1/25ff
 – ion-exchange, 1/4
 – anion-exchange, 1/29ff
 – cation-exchange, 1/401ff
 – ion-exclusion, 1/4, 2/533ff
 – ion-pair, 1/5, 2/583ff
 – retention models, 2/584ff
 – liquid solid, 1/1
 – mixed-mode liquid, 2/640ff

- paper, 1/1
- reversed-phase, 1/5, 1/505
- thin layer, 1/1
- Chrome azurol S (CAS), 2/657, 3/1047
- Chromium
 - chromium(III), 1/483, 2/850
 - postchromatographic oxidation, 2/855
 - chromium(III)/(VI) ratio, 3/1153
 - chromium(IV), 1/483, 2/798, 2/854
 - simultaneous analysis, 1/483f, 2/854
 - speciation, 2/854
- α -Chymotrypsinogen, 1/355, 1/509
- Cinchonin, 2/654
- Citrazinic acid
 - see 2,6-Dihydroxyisonicotinic acid
- Citric acid, 1/82, 1/118, 1/234, 1/470, 2/538, 2/552, 2/573, 2/590, 2/645, 2/673, 2/846, 2/901, 3/1184, 3/1220f
- Citruline, 2/568
- Citrus juice, 3/1198
- Cleansing agents, 2/798, 3/1188
- Clodronate, 1/256, 1/258, 2/836, 2/901, 3/1311f
- Cluster, molybdenum-sulfur, 2/608
- Cobalamine, 3/1322
- Cobalt, 1/182, 1/444, 1/474, 1/481, 2/850, 3/1099, 3/1101, 3/1122, 3/1160, 3/1393
- Cocaine, 2/612
- Coco FAES, 3/1190
- Codeine, 2/612
- Coefficient,
 - activity, 1/30f, 2/735f
 - column, 1/23
 - complex formation, 1/470
 - conductivity, 2/738
 - correlation, 1/456f, 2/562, 2/948
 - distribution, 1/471
 - Ostwald absorption, 3/1058
 - selectivity, 1/30
 - weight distribution, 1/31
- Coffee analysis, 3/1260, 3/1263
- Cola soft drinks, 3/1219ff
- Colchicine, 2/654
- Collagen hydrolysate, 1/349f
- Collision induced dissociation (CID), 2/872
- Colorimetry, 1/8
- Column
 - bleeding, 2/557
 - body, material, 1/6
 - coefficient, 1/23
 - dead time, 1/15
 - efficiency, 1/19
 - length, 1/19, 2/575
- maintenance, 3/1456f
- poison, 3/996, 3/1456
- switching technique, 3/1087f
- temperature, 1/126, 1/285, 1/503, 3/1379
- Complexes
 - aluminum halide, 1/142
 - chromium(III)-PDCA, 1/483
 - cobalt-cyano, 2/606, 3/1158
 - copper-ethylenediamine, 2/490, 3/1159
 - copper-methylamine, 1/490
 - cryptand-cation, 1/137
 - EDTA-Sb(III), 2/865
 - formation coefficient, 1/470
 - Gd-DTPA, 2/605
 - gold-cyano, 2/606, 3/1158
 - indicator, 1/472
 - iron cyanide, 2/597
 - iron(III)-phytic acid, 3/1240
 - lanthanide-PDCA, 1/489
 - melamine-cyanuric acid, 2/726
 - metal-chloro, 1/221, 2/783
 - metal-cyano, 1/182, 2/606
 - metal-DTPA, 2/605
 - metal-EDTA, 1/221, 2/605, 3/1158
 - metal-oxalate, 1/479
 - - stability constants, 1/479
 - metal-PDCA, 1/478
 - - stability constants, 1/479
 - molybdenum disulfido, 2/608
 - silver-cyano, 2/606
 - stability
 - - kinetic, 1/472, 2/604
 - - thermodynamic, 1/472, 2/604
 - Zn-EDTA, 2/785
- Complexing agents, 1/404f
- Computer, personal, 2/941f, 3/1115
- Conalbumine, 1/357
- Concentrator columns, 3/1069
 - AC-ER, 1/148
 - IonPac AC10, 2/547
 - IonPac AG4A-SC, 3/1117
 - IonPac AG5, 3/1117
 - IonPac CG12A, 3/1044
 - IonPac Cryptand C1, 1/109, 3/1029, 3/1030
 - IonPac UTAC-ULP1, 2/890
 - IonSwift MAC-100, 3/1100
 - IonSwift MAC-200, 1/116
 - MetPac CC-1, 3/1371, 3/1374
 - TAC-1, 3/1116
 - TAC-LP1, 2/678
 - TAC-ULP1, 3/1033
 - TBC-1, 2/545, 3/1074
 - TMC-1, 3/1375

- TCC-LP1, 3/1147
- UTAC-ALP1, 3/1408
- UTAC-LP1, 3/1082
- Condensation particle counting (CPC), 2/819
- Conditioning agents, 3/1085, 3/1105
- Conductivity
 - background, 1/151, 1/152, 1/160, 2/739
 - coefficient, 2/738
 - electrical, 2/732
 - of electrolyte solution, 2/732ff
 - equivalent, 2/734
 - – table, 2/735
- Confidence interval, 2/893, 2/908, 2/945f, 2/950
 - representation, 2/950
- Constant, dielectric, 1/504, 2/736
- Contrast agents, 3/1354f
- Control cards, 3/964ff
 - blank value, 2/966
 - \bar{x} -R-combination, 2/969
 - Cusum, 2/970ff
 - differences, 2/969
 - mean value, 2/966
 - quality, 2/964
 - recovery, 2/966
 - Shewhart, 2/965f
 - span, 2/968
- Copper, 1/474, 1/481, 2/850f, 3/997, 3/1047, 3/1077, 3/1103, 3/1155, 3/1172
- Core-shell particle, 2/690
- Corn stover hydrolysis, 3/1415
- Correlation coefficient, 1/456f, 2/562, 2/948
- Cottrell equation, 2/748
- Cough suppressant, 3/1296, 3/1320
- Coulomb fission, 2/869
- Coupling
 - HPICE/HPIC, 1/547, 1/553ff
 - IC/AAS, 2/853
 - IC/DCP-AES, 2/858
 - IC/ICP, 2/853ff
 - IC/ICP-MS, 2/857, 3/1017, 3/1024
 - IC/ICP-OES, 2/855
 - IC/MS, 2/865ff, 3/1023, 3/1037
 - – instrumentation, 2/872
 - LC/HG-AAS, 2/864
- Creatine kinase, 1/354
- Creatinine, 3/1337
- o*-Cresol, 2/637
- Cross-linking, degree of, 1/37, 1/535, 2/643
 - effective degree of, 1/200
- 12-Crown-4, 1/131
- 15-Crown-5, 1/131
- 18-crown-6
 - see 1,4,7,10,13,16-Hexaoxacyclooctadecane
- Crown ethers, 1/130
- Cryptand 2.2.2, 1/135, 1/137
 - binding constants, 1/135
- Cumene sulfonate, 2/618, 3/1181
- Current, electrical, 2/733
 - charging, 2/747
 - diffusion, 2/746
 - Faraday, 2/747
- Cutter agents, 3/1236
- Cyanate, 1/177, 3/1455
- Cyanic acid, 3/1057
- Cyanide, 1/95, 1/181, 2/547, 2/748, 3/1403
 - easily releasable, 1/183
 - free, 1/183
 - reaction to cyanate, 3/1455
 - total, 1/184
- p*-Cyanophenol, 1/31, 1/93, 1/156, 1/217, 1/237, 3/1058, 3/1351, 3/1418
- Cyanopropyl-bonded silica, 2/600, 2/692
- Cyanuric acid, 2/725ff, 3/1252
- Cyclamate, 3/1264f
- Cyclic voltammetric stripping (CVS), 3/1163
- Cyclitols, 1/287
- Cyclobond I, II, 2/694
- α - β - γ -Cyclodextrins, 1/315
- Cyclodextrin-bonded phases, 2/693
- Cyclohexylamine, 1/423, 1/500
- 2-(Cyclohexylamino)ethanesulfonic acid (CHES), 2/720
- 3-(Cyclohexylamino)-2-hydroxy-1-propanesulfonic acid (CAPSO), 2/720
- 3-(Cyclohexylamino)-1-propanesulfonic acid (CAPS), 1/276, 2/720
- Cyclovoltammetry, 2/750, 2/757, 2/767
- Cyclovoltammogram
 - of formaldehyde, 2/758
 - of glucose, 2/750
 - of propionaldehyde, 2/757
- Cystathione, 3/1353
- Cysteic acid, 2/566
- Cysteine, 2/565, 2/766, 2/815, 3/1353
- Cysteinylglycine, 3/1353
- Cystine, 1/342, 1/348f, 2/573
- Cytidine, 1/245, 2/723
 - diphosphate, 1/248
 - 5'-monophosphate, 1/247
 - triphosphate, 1/248
- Cytochrome c, 1/354, 1/507
- Cytosine, 2/723
- d**
- Dairy products, 3/1325
- Dalapon
- see 2,2-Dichloropropionic acid
- Dansyl chloride (DNS), 2/562

- Dead time, 1/1/131/, 213
- Deamidation, 1/507, 1/518, 2/577
- Debye-Hückel theory, 2/736f
- 1,10-Decanediamine, 1/427, 1/504
- Decanesulfonic acid, 2/620
- Decyl-2.2.2, 1/137
- Decyl-dimethyl-benzylammonium, 2/629
- Decyl sulfate, 2/620, 3/1405
- Decyltrimethylammonium, 2/505, 2/627
- Degree
 - of cross-linking, 1/535
 - - effective, 1/200
 - of ethoxylation, 2/621
 - of freedom, 2/946, 2/963
 - of hydrophobicity, 2/588
 - of sulfonation, 1/402
- Dehydroascorbic acid, 3/1243
- Dehydrolipoic acid, 2/760
- Dehydrogenated tallow
 - dimethylammonium, 2/632
- DENOX system, 3/1107
- Denuder, 3/1059
 - liquid diffusion, 3/1060
 - parallel plate wet, 3/1060
 - wet rotating, 3/1063
- Deoxyadenosine-5'-monophosphate, 1/249
- Deoxycytidine, 1/249
 - 5'-monophosphate, 1/249
- 2-Deoxy-2-[¹⁸F]fluoro-D-glucose (FDG), 3/1348
- 6-Deoxy-L-galactose, 1/293
- 3-Deoxy-D-glycero-D-galacto-2-nonulosonic acid (KDN), 1/327
- 2-Deoxyglucose, 1/290, 1/298, 1/306, 1/325
- 2'-Deoxyguanosine, 1/249
 - 5'-monophosphate, 1/249
- 6-Deoxyhexoses, 1/293
- 3-Deoxy-D-manno-2-octulosonic acid (KDO), 1/327
- Deoxyribonucleic acid (DNA), 1/245
- 2'-Deoxy-D-ribose, 1/245, 1/293
- Deoxystreptamine, 2/833, 3/1308
- Depolarisators, 2/745
- Deproteination, 2/572, 3/1347
- DEQUESTTM, 1/259
- Derivatization
 - postcolumn, 2/572, 2/783ff
 - - two-step, 2/804
 - precolumn, 1/349, 2/562
- Desalter, membrane, 1/337
- Detection, 2/731ff
 - aerosol-based, 2/810ff
 - aerosol charge, 2/822
- amperometric, 2/743ff
- - integrated pulsed, 2/759f
- - pulsed, 2/749ff
- - with constant working potential (DC), 2/748f
- charge, 2/771ff
- - calibration behavior, 2/776
- charged aerosol, 2/822ff, 2/836, 2/840, 3/1171, 3/1308
- chemiluminescence, 2/550, 2/848f, 3/1100
- chemiluminescent nitrogen, 2/851
- condensation nucleation light scattering, 2/819f
- conductivity, 2/731ff
- - application modes, 2/738ff
- - comparison between suppressed and nonsuppressed, 2/741ff
- - indirect, 1/152, 2/740
- - nonsuppressed, 2/404, 2/429, 2/443, 3/985, 3/1049, 3/1102f, 3/1159, 3/1165, 3/1349
- criteria, 2/960ff
- coulometric, 3/1171
- element-specific, 1/180, 2/856
- evaporative light scattering, 2/811ff
 - - comparison with charged aerosol detection, 2/816
 - - comparison with chemiluminescence nitrogen detection, 2/815
 - - comparison with condensation nucleation light scattering detection, 2/816
- fluorescence, 2/803ff
 - - indirect, 2/808
- hyphenated techniques, 2/853
- mass-selective, 2/865
- phosphorus-specific, 2/799, 3/1106
- photometric, 2/782ff
 - - after derivatization, 2/783ff
 - - direct, 2/782f
 - - indirect, 2/799ff
 - - refractive index, 1/34, 2/844
- radioactivity, 2/847
- selection of, 1/10
- spectrometric, 2/782ff
- techniques, survey, 3/977
- Detectors
 - aerosol-based, 2/811, 2/822
 - amperometric, 1/7, 2/743, 2/754
 - - pulsed amperometric, 2/768
 - - cell, 2/768
 - bulk-property, 1/153
 - charge, 1/7
 - charged aerosol, 2/822
 - chemiluminescent nitrogen, 2/851

- conductivity, 1/7
- evaporative light scattering, 2/812
- fluorescence, 1/7
- nano quantity analyte, 2/819
- performance criteria, 1/6
- scintillation, 2/847
- UV/Vis, 1/7
- Detergents, 2/936, 3/1175f
- Dewetting effect, 2/832, 3/1183
- Dexamethasone, 2/664
- Dextran, 1/315, 2/819
 - hydrolysate, 1/315
- Dextromethorphan, 2/664, 3/1273
- Di-*N*-acetylchitobiose, 1/324
- Dialkyldimethylammonium, 2/626, 3/1177
- Dialkyl sulfosuccinates, 2/625
- Dialysis, 3/1225, 3/1453
 - active, 3/1453
 - Donnan, 3/1453
 - electro, 3/1453
 - in-line, 3/1454
 - passive, 3/1453
- Diamines, 1/422
- 3,3-Diaminopropylamine, 1/427
- o*-Dianisidine (ODA), 2/790, 3/1005
- 1,10-Diaza-4,7,13,16,21,24-hexaoxabicyclo[8.8.8]hexacosan (D2.2.2), 1/247
- Dibenzo-18-crown-6, 1/130ff
- Dibromoacetic acid, 1/114, 2/879, 3/1021
- Dibromomonochloroacetic acid, 1/240, 2/879
- Dibucaine, 2/852
- Didutylphosphate, 1/244
- Dicaffeoylquinic acid, 3/1262
- Dicarboxylic acids, aliphatic, 1/156, 1/231, 1/449, 3/1375
- 2,2'-Dicarboxyphenyldisulfide, 3/1385
- Dichloroacetic acid, 1/114, 2/793, 2/879, 3/1010, 3/1021
- Dichlorobenzyl-alkyl-dimethylammonium, 2/629
- Dichloromethylenebisphosphonic acid (Clodronate), 1/256, 1/258, 2/836, 2/901, 3/1311
- Dichloromonobromoacetic acid, 1/240, 2/793, 2/879, 3/1010, 3/1021
- 2,6-Dichloro-4-nitroaniline, 1/506
- 2,4-Dichloro-3-nitrophenol, 2/637
- 2,4-Dichlorophenoxyacetic acid (2,4-D), 1/236
- 2,2-Dichloropropionic acid (Dalapon), 1/240, 2/877
- Dichromate, 2/797
- Diclofenac, 2/830, 3/1317
- Dicyanamide, 3/1378, 3/1381
- Dielectric constant, 1/504, 2/734, 2/736ff
- Diethanolamine (DEA), 1/425, 1/501, 3/907, 3/1395
- Diethylamine, 1/502, 2/609, 3/1172
- 2-Diethylaminoethanol, 1/416, 1/425, 1/500
- N,N*-Diethylaniline, 1/506
- Diethylcarbamazine, 2/852
- Diethylene glycol, 2/561
- N,N*-Diethylenediamine, 1/427
- Diethylenetriamine, 1/260, 1/497
- Diethylenetriaminepentaacetic acid (DTPA), 1/238
- Diethylenetriaminepenta(methylenephosphonic acid) (DTTP, DEQUEST 2060), 1/94, 1/260, 3/1405
 - di-*N*-oxide, 1/260
 - mono-*N*-oxide, 1/260
- N,N*-Diethylenediamine, 1/498
- Diethyl heptadecylimidazolium, 2/632, 3/1190
- Diethylhydroxylamine, 3/1284
- 1,3-Diethylimidazolium, 2/900
- Diethyltolueneamide, 2/648
- Diffusion
 - current, 2/746
 - Eddy, 1/21
 - lateral, 1/21
 - longitudinal, 1/21
- Diflunisal, 2/652
- Digestion
 - bomb, oxidative, 3/1448
 - combustion, 3/1448, 3/1451
 - dry ashing, 3/1217
 - fusion, 3/1452
 - oxygen, 3/1450
 - Schöniger, 3/1322
 - wet, 3/1447
 - Wickbold, 3/1448
- Dihydrolipoic acid, 2/761
- Dihydrostreptomycin, 3/1304
- 4,5-Dihydroxy-1,3-benzenedisulfonic acid-disodium salt (Tiron), 1/485, 2/785
- 3,4-Dihydroxybenzylamine, 2/613, 3/1357
- o*-(1,8-Dihydroxy-3,6-disulfo-2-naphthylazo)benzenearsonic acid (Arsenazo I), 2/786
- 2,6-Dihydroxyisonicotinic acid (citrazinic acid), 1/237
- 3,4-Dihydroxyphenylalanine (Dopa), 2/837
- Diisobutyl-[2-(2-phenoxyethoxyethyl]-dimethylbenzyl-ammonium chloride (Hyamine 1622), 2/630, 3/1176
- Dimethylamine, 1/416, 1/428, 3/1172, 3/1287
- 1-Dimethylamino-2-propanol, 1/429
- 3-Dimethylaminopropylamine, 1/498

- 2-Dimethylaminopyridine, 1/506
N,N'-Dimethylaniline, 1/506
 Dimethylarsinic acid, 2/859, 2/923
 1,1-Dimethylbiguanide (Metformin), 2/670,
 2/718, 3/1316
 Dimethyldehydrogenated tallow
 ammonium, 3/1190
N,N-Dimethylethanolamine, 3/1283
 Dimethylformamide, 3/1130
N-(1,1-Dimethyl-2-hydroxyethyl)-3-amino-2-
 hydroxypropanesulfonic acid (AMPSO),
 2/720
 Dimethylhydroxylamine, 3/1284
 1,3-Dimethylimidazolium, 2/900
 2,3-Dimethylindole, 2/852
N,N-Dimethyl-2-mercaptoproethylamine-
 hydrochloride (Thiofluor), 2/805
 Dimethyl mercury, 2/862
 2,4-Dimethylphenol, 2/637
 Dimethylphosphate, 2/890
O,S-Dimethyl phosphorothioate, 2/892
N,N-Dimethyl-1,3-propanediamine, 1/433
 1,2-Dimethylpropylamine, 1/502
 Dinaphthal-18-crown-6, 1/130
 3,4-Dinitrobenzoate, 2/645
 Diphenhydramine, 2/591, 2/852
 1,5-Diphenylcarbazide (DPC), 2/797
 Diphenylhydantoin, 2/649
N,N'-Diphenylthiourea, 3/1165
 Diphosphonic acids
 – germinal, 1/161
 – vicinal, 1/161
 1,1-Diphosphonopropane-2,3-dicarboxylic
 acid (DPD), 1/267
 Di-*n*-propylamine, 1/502
 Diquat, 1/431, 2/675
 Direct injection nebulization (DIN), 2/856
 Disaccharides, 1/308
 – nonreducing, 1/308
 – reducing, 1/308
 Discovery Cyano, 2/693
 Distribution
 – coefficient, Nernst, 1/18, 1/31, 1/32, 1/33,
 1/469
 – equilibrium, 1/19
 Disulfate, 1/604
 Disulfite, 1/604
 5,5'-Dithiobis(2-nitrobenzoic acid)
 (DTNB), 2/571
 Dithiomolybdate, 2/608
 Dithionate, 2/601, 3/1109
 Diuretics, 2/654
 Divinylbenzene (DVB), 1/37, 1/50, 1/71, 1/122,
 1/404, 2/535, 3/1073
 DNAPac PA100, 1/369
 DNAPac PA200, 1/369
 DNASwift SAX-1S, 1/386
 Docusate, 2/897
 1,12-Dodecanediamine, 2/504
 Dodecyl-dimethyl-benzylammonium, 2/629
 Dodecyl ether sulfate, 2/623
 Dodecylpyridinium, 2/631
 Dodecyl sulfate, 2/616, 2/620, 3/1405,
 3/1164
 Dodecyl sulfonate, 2/616
 Dodecyltrimethylammonium, 1/505, 2/627
 Donnan
 – effect, 1/153
 – membrane, 2/534
 Donor atom, 3/1048
 Dopamine, 2/613, 3/1219, 3/1357
 Double layer, electrical, 2/587
 Doxepin, 2/667
 Dulcitol, 1/288ff, 1/329, 2/915
 Dulcoside A, 3/1268
 Dye
 – azo, 2/650f
 – reactive, 31376
 Dysprosium, 1/488
- e**
- Electrode
 – counter, 2/743
 – half reaction, 2/756
 – recession, 2/752
 – reference, 743
 – – Ag/AgCl, 1/151, 2/744, 2/755
 – – palladium hydrogen (PdH), 2/755
 – materials, 2/771
 – types, 2/769
 – working, 2/743
 – – disposable, 2/769
 Electrodialysis, 1/167, 3/1453
 Electrolysis, chloralkali, 3/1446
 Electrolytic pH modifier (EPM), 1/102, 1/144,
 3/978
 Electrolytic water purifier (EWP), 3/1070,
 3/1081
 Electromigration, 2/775
 Electronic signature, 942ff
 Electron transfer, 2/771
 Electrophoretic effect, 2/738
 Electrospray
 – interface, 2/867ff, 2/884
 – ionization, 2/685, 2/869
 – – mass spectrometry (ESI-MS), 2/841
 Eluent generator, 1/272f, 1/305, 3/978, 3/1095,
 3/1113, 3/1200, 3/1221, 3/1260

Eluents

- amino acid, 1/149
- aminoalkylsulfonic acid, 1/150
- 2-aminoethanesulfonic acid (taurine), 1/276
- ammonium hydroxide, 2/591
- ammonium nitrate, 3/1018
- ammonium sulfate/sulfuric acid, 1/485, 2/785
- ammonium-*o*-sulfobenzoate, 1/151
- for anion-exchange chromatography, 1/142ff
- benzoic acid, 1/150, 1/206, 1/543
- borate/gluconate, 1/202f
- boric acid, 1/55
- boric acid/sodium hydroxide, 3/1073
- carbonate/hydroxide
- see sodium carbonate/sodium hydroxide
- for cation-exchange chromatography, 1/448ff
- cerium(III) nitrate, 1/448
- cetyltrimethylammonium bromide, 2/590
- choice, 1/177, 1/201
- citrate buffer, 2/564
- citric acid, 1/208, 1/473
- citric acid/oxalic acid, 1/476
- citric acid/tartaric acid, 1/476
- concentration and pH value, 1/193ff, 1/213ff
- copper sulfate, 2/802
- *p*-cyanophenol, 1/150, 1/276
- 3-(*N*-cyclohexylamino)-1-propanesulfonic acid (CAPS), 1/276
- ethylenediamine/oxalic acid, 1/449
- ethylenediamine/tartaric acid, 1/404, 1/449
- flow rate, 1/176
- formic acid, 1/441
- for nonsuppressed systems, 1/150f
- fumaric acid, 1/208
- generation, electrolytic, 1/273, 1/305
- heptafluoropropanoic acid (perfluorobutyric acid), 2/543
- heptanesulfonic acid, 2/591
- hexanesulfonic acid, 2/591
- Hi-Phi buffers, 2/564
- hydrochloric acid, 1/402, 1/448, 1/485, 2/542
- hydrochloric acid/2,3-diaminopropionic acid, 1/404, 1/449
- *p*-hydroxybenzoic acid, 1/55, 1/203, 2/844
- α -hydroxyisobutyric acid (HIBA), 1/474, 1/488
- iodide, 2/800
- for ion-exclusion chromatography, 2/542ff
- isonicotinic acid, 1/448
- lithium hydroxide, 1/138
- lithium sulfate/sulfuric acid, 2/763
- methanesulfonic acid, 1/412, 1/449
- methanesulfonic acid/mannitol, 2/545
- methanesulfonic acid/oxalic acid, 1/473
- methyl amine, 1/111, 2/886
- 2-methyllactic acid, 2/786
- nicotinic acid, 1/208, 3/1343
- nitric acid, 1/221, 1/238, 1/256, 2/855, 3/1179, 3/1227, 3/1240, 3/1313
- nitric acid/dipicolinic acid, 3/1047
- octanesulfonic acid, 2/543, 2/591
- octanesulfonic acid/mannitol, 2/543
- oxalic acid, 1/55, 1/473
- oxalic acid/citric acid, 1/476
- oxalic acid/diglycolic acid, 1/488
- perchloric acid, 2/559
- perfluorobutyric acid
- see heptafluoropropanoic acid
- perfluoroheptanoic acid
- see tridecafluoroheptanoic acid
- *m*-phenylenediamine-dihydrochloride, 1/402, 1/449
- phthalic acid, 1/128, 1/150, 1/205, 2/800, 2/844, 3/1343
- phthalic acid/MeCN, 1/58
- phthalic acid/Tris/boric acid, 1/58
- Pico buffer, 2/564
- potassium chloride, 3/1041
- potassium chloride/EDTA, 1/225, 1/499
- potassium citrate, 1/203
- potassium hydrogenphthalate, 1/151, 1/202
- potassium hydroxide, 1/148f, 1/272f, 2/740
- pyridine-2,6-dicarboxylic acid, 1/473
- pyridine-2,6-dicarboxylic acid/oxalic acid, 1/449
- pyridine-2,6-dicarboxylic acid/tartaric acid, 1/449
- salicylic acid, 1/128, 2/844
- silver nitrate, 1/448
- sodium acetate/sodium perchlorate, 1/143
- sodium benzoate, 1/151
- sodium carbonate, 1/41, 1/73, 1/187, 1/217
- sodium carbonate/sodium bicarbonate, 1/102, 1/143
- sodium carbonate/sodium dihydrogenborate/ethylenediamine, 1/182
- sodium hydroxide, 1/77, 1/38, 1/148, 1/327
- addition of barium acetate, 1/302
- addition of zinc acetate, 1/310
- preparation, 1/271
- sodium hydroxide/methanol, 1/80

- sodium hydroxide/sodium acetate, 1/282, 1/307, 1/311ff, 1/342
- sodium *p*-hydroxybenzoate, 1/40
- sodium nitrate/sodium hydroxide, 1/237
- sodium phenolate, 1/143
- sodium phthalate, 2/800
- sodium sulfate/sulfuric acid, 2/764
- sodium tetraborate, 1/149, 3/1095
- succinic acid, 1/208
- *o*-sulfonylbenzoate, 1/150, 2/800, 1/844
- sulfuric acid, 1/412, 1/449, 2/542
- tartaric acid, 1/129, 1/449
- tartaric acid/ethylenediamine, 1/404, 1/472
- tartaric acid/oxalic acid, 1/473
- tartaric acid/pyridine-2,6-dicarboxylic acid, 1/441
- tetrabutylammonium hydroxide, 2/591
- tetrabutylammonium salicylate, 2/600
- tetramethylammonium hydroxide, 2/591
- tetrapropylammonium hydroxide, 2/591
- tridecafluoroheptanoic acid (perfluoroheptanoic acid), 2/543
- trifluoroacetic acid, 1/416
- trimesic acid, 1/151, 2/800
- tyrosine, 1/150
- vanillic acid/*N*-methyl diethanolamine, 1/57
- water, 1/134, 2/542, 2/560
- zwitterionic, 1/276, 2/740
- Endcapping, 1/132
- EndoF2, 3/1365
- EndoH, 3/1365
- Endoplasmatic reticulum, 1/323
- Endothall
 - see 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
- Enthalpy
 - hydration, 1/176
 - sorption, 1/33
- Entropy
 - configuration, 1/36
 - mixing, 1/36
 - sorption, 1/33
- Eosin Y, 2/850
- Ephedrine, 2/611f
- Epimerization, 1/336
- Epinephrine, 2/611, 3/1357
- Erbium, 1/488
- Error
 - α -, 2/960
 - β -, 2/960
 - random, 2/944
 - statistical, 2/944
 - systematic, 2/944
- Erythritol, 1/289, 3/1327
 - *i*-, 1/288
 - *meso*-, 1/311, 2/678
- Erythropoietin (rEPO), 1/323, 1/338
- Etching solution, 3/1115, 3/1139
- Ethane-1,2-bis(P-methyl-phosphinic acid), 1/262
- 1,2-Ethanediphosphonic acid, 1/262
- 1,2-Ethanesulfonic acid, 1/252, 3/1154, 3/1274
- Ethane-1,1,2,2-tetrakis(P-methyl-phosphinic acid), 1/262
- Ethane-1,2,2-tris(P-methyl-phosphinic acid), 1/262
- Ethanol, 2/542, 2/559, 2/846, 2/867, 3/1210, 3/1327, 3/1409
- Ethanolamines, 1/500, 2/609, 2/763
- Ethylamines, 1/500
- 2-Ethylaminoethanol, 1/416
- N*-Ethyl diethanolamine, 2/903
- Ethyldimethylcetylammmonium, 2/851
- Ethylenediamine, 1/184, 1/404, 1/427, 1/497, 2/740, 2/787, 3/1000
- Ethylenediaminediacetic acid (EDDA), 1/239, 2/639
- Ethylenediaminetetraacetic acid (EDTA), 1/238, 2/639, 2/865
- Ethylenediaminetetra(methylenephosphonic acid) (EDTP, DEQUEST 2041), 1/94, 1/260, 1/267
 - di-*N*-oxide, 1/260
 - mono-*N*-oxide, 1/260
- Ethylenediaminetriacetic acid (EDTriA), 1/239, 2/639
- Ethylene dimethacrylate, 1/122
- Ethylene glycol
 - see Monoethylene glycol
- N*-Ethyl garamine, 2/833, 3/1308
- Ethylhydroxylamine, 3/1284
- N*-Ethylimidazole, 2/900
 - 1-Ethyl-3-methylimidazolium, 2/897, 3/1379
- Ethyl sulfate, 1/251
- Ethylvinylbenzene/divinylbenzene, 1/49, 1/54
- Etidronate, 1/256, 1/258, 2/837, 2/901, 3/1313
- Europium, 1/488f
- Eurospher I/II Amino, 2/697
- Eurospher I/II Cyano, 2/693
- Eurospher I/II Diol, 2/691
- Eurospher I/II Si, 2/688
- ExcelPak ICS A23
 - see GelPack GL-IC-A23
- Excipients, 1/257, 2/901

Exclusion
 – Donnan, 1/4, 2/533
 – steric, 1/4, 2/533
 – volume, 2/534
 Extraction cartridges, 2/647

f

Faraday constant, 2/733, 2/747f
 Fast-Sep Cation, 1/435
 Fatty acids, 2/537
 – long-chain, 2/545, 2/636, 2/810
 – methyl esters (FAME), 3/1412
 – short-chain, 2/889
 Fatty alcohol ether sulfates (FAES), 2/621, 3/1177, 3/1190
 Fatty alcohol polyglycoether sulfosuccinate, 2/625
 Fatty alcohol sulfates, 2/621
 Fenbufen, 2/652
 Fermentation, 2/831ff, 3/1329, 3/1409
 Ferulic acid, 1/12
 Feruloylquinic acid, 3/1262
 Fetuin, bovine, 1/326
 Fibrinogen, 1/326
 Fillers, 3/1175, 3/1181
 Filter
 – backflush, 3/1427
 – cap, 3/1426
 – Centricon, 3/1225, 3/1342
 – disposable, 3/1425
 – high-pressure in-line, 3/1425
 Filtration, 2/840, 2/936
 Flue gas
 – denitrification, 3/1107
 – desulfurization, 3/1107
 – scrubber solution, 3/1106
 Fluorenylmethyloxycarbonyl chloride (FMOC), 2/562
 Fluorescein, 2/657
 Fluorescence quantum yield, 2/848
 Fluoride, 1/41, 1/50, 1/74, 1/100, 1/188ff, 1/209, 1/280, 2/546f, 2/740, 2/898, 3/979, 3/1097, 3/1113, 3/1196, 3/1423
 Fluoroacetate, 2/886
 $[^{18}\text{F}]$ Fluorocholine (FCH), 3/1349
 2-Fluoroethyl nitrosourea, 2/886
 Fluorotelomer alcohols (FTOH), 3/1451
 5-Fluorouracil, 2/886
 Fly ash, 3/1057
 Folate, 3/1322
 Formaldehyde, 2/560, 2/757
 Formamidinium, 2/461
 Formate, 1/50, 1/192, 2/890

Formic acid, 1/243, 2/537, 2/662, 3/1078, 3/1159, 3/1398

Fronting effect

– see Leading effect

Fructo-oligosaccharides (FOS), 3/1230, 3/1251

Fructose, 1/293, 2/542, 2/840, 2/846, 2/910, 3/1204, 3/1260

D-Fructose-1,6-diphosphate, 1/309

β -D-Fructose-2,6-diphosphate, 1/309

D-Fructose-1-phosphate, 1/309

D-Fructose-6-phosphate, 1/309, 3/1360

Fructosylnystose, 3/1231

Fruit juice analysis, 3/1198ff

F-Test, 2/952ff

Fucitol, 1/329

Fucose, 1/329, 2/915, 3/1293, 3/1260

Fucosidase, 3/1366

Fumaric acid, 1/82, 1/233, 2/538, 2/838, 3/1201

g

Gabapentin, 2/836

Gadolinium, 1/488, 2/606, 3/1354f

– contrast agent, 3/1354

Gadovist, 3/1355

Galactinose, 1/314

Galactitol, 3/1327, 3/1329

Galacto-oligosaccharides (GOS), 3/1251

D-Galactosamine, 1/295, 1/307, 2/915

α -D-Galactosamine-1-phosphate, 1/309

Galactosan, 1/290

Galactose, 1/293, 1/322, 2/915, 3/1260

α -D-Galactose-1-phosphate, 1/309

α -D-Galactose-6-phosphate, 1/309

β -Galactosidase, 2/917, 3/1251, 3/1366

Galactosyl-lactose, 3/1246

Galacturonic acid, 1/84, 1/241, 2/552, 3/1199, 3/1246

– polygalacturonic acid, 1/241

Gallium, 1/483

Garamine, 2/832

GB

– see Sarin

GelPack GL-IC-A23, 1/41

Gemini C18, 3/1384

Genesis Amino, 2/697

Genesis CN, 2/693

Gentamicin, 2/830, 2/831f, 3/1309

Gentiobiose, 1/310

Gentisate, 2/645

Ginsenosides, 2/817

Glibenclamide, 2/835

GlycanPak AXH-1, 2/842

- Gliclazide, 2/835
 Glimepiride, 2/835
 Glipizide, 2/835
 α -1,6-Glucan, 1/315
 Gluconic acid, 1/229, 2/539, 3/1160, 3/1184, 3/1329, 3/1420
 α -D-Glucopyranosido-1,6-mannitol (GPM), 1/312, 3/1266
 α -D-Glucopyranosido-1,6-sorbitol (GPS), 1/312, 3/1266
 D-Glucosamine, 1/295, 2/915
 α -D-Glucosamine-1-phosphate, 1/309
 α -D-Glucosamine-6-phosphate, 1/309
 Glucose, 1/293, 2/755, 2/840, 2/846, 2/910, 2/915, 3/1204, 3/1260
– oxidation mechanism, 2/752
– syrup, 3/1208
 α -D-Glucose-1,6-diphosphate, 1/309
 α -D-Glucose-1-phosphate, 1/309
 D-Glucose-6-phosphate, 1/309, 3/1360
 Glucuronic acid, 1/241, 2/552, 3/1420
 α -D-Glucuronic acid-1-phosphate, 1/309
 Glutamic acid, 1/342, 2/566, 2/573, 2/717, 2/815
 Glutamine, 1/342, 2/565, 2/573, 2/815
 Glutaric acid, 1/82, 2/538, 3/1039
 Glutaric dialdehyde, 2/560
 Glutathione, 3/1353
 Glycan analysis, 2/842ff
 Glyceric acid, 2/678
 Glycerol, 1/287, 2/560, 2/846, 3/1117, 3/1189, 3/1210, 3/1327, 3/1414
 Glycerolic acid, 3/1039
 α -/ β -Glycerophosphates, 1/244
 3-Glycidoxypropyltrimethoxysilane, 1/494
 Glycine, 1/342, 2/565, 2/572, 2/815, 2/837
 Glycolic acid, 1/50, 1/229, 2/243, 2/538, 2/662, 3/1039, 3/1078, 3/1132
 Glycolipid, 1/320
N-Glycolylneuraminic acid, 1/326, 3/1363
N-Glycopeptidase F, 1/329, 3/1364
 Glycoproteins, 1/320, 2/843
– antifreeze, 1/323
– hydrolysate, 1/300
 Glycosaminoglycans, 1/241
 Glycosylation, 2/528, 2/577, 2/843
 Glycosyltransferase, 1/323
 Glyoxal, 2/560
 Glyoxylic acid, 3/1039, 3/1360
 Glyphosate
– see *N*-(Methylphosphono)glycine
 Gold(I)/(III), 2/606, 3/1158
 Golgi apparatus, 1/323
 Good's buffers, 2/720
 GraceSmart C18, 2/835
 Gradients
– aminoalkylsulfonic acid, 1/150, 1/276
– capacity, 1/134, 1/138, 1/270
– carbonate, 1/156
– composition, 1/156, 1/163, 1/270
– concentration, 1/108, 1/156, 1/163, 1/270
– optimization, 1/277f
– *p*-cyanophenol, 1/276
– 3-(*N*-cyclohexylamino)-1-propanesulfonic acid (CAPS), 1/276
– inverse, 1/294, 2/826
– isoconductive, 1/278ff
– pH, 1/517
– profile, 1/173, 1/316, 1/343
– step, 1/230, 1/267
– taurine, 1/276
– tetraborate, 1/230
 Gradient elution, 1/179, 1/267ff, 1/498ff, 3/1073
– choice of eluents, 1/270f
– of amines, 1/419, 1/423, 1/501ff
– of anilines, 1/504
– of carbohydrates, 1/310, 1/292, 1/309f, 1/317ff, 1/331
– of ethanolamines, 1/423
– of ethylamines, 2/500
– of inorganic anions, 3/1073
– of inorganic and organic anions, 1267ff, 3/1073
– of inorganic and organic cations, 1/498ff
– of inositol phosphates, 1/250, 3/1352
– of lanthanides, 1/487ff
– of methylamines, 1/500
– of organic acids, 3/1198
– of polyphosphates, 1/227
– of pyridines, 1/504
– of sugar alcohols, 1/288
– of water-soluble vitamins, 2/1322
– theoretical aspects, 1/268ff
 Grafting, 1/49f
 Graseby/Anderson apparatus, 3/1057
 Gravimetry, 1/8
 Griess method, 3/1341
 Growth hormone, human, 2/519
 Guanidinium, 1/461
 Guanine, 2/722
 Guanosine, 1/245, 2/723
– diphosphate, 1/248
– 5'-monophosphate, 1/247
– triphosphate, 1/248

- Guanyl urea, 1/461
 Gypsum analysis, 3/1107, 3/1422
- h**
 Hafnium, 1/485
 Haloacetic acids, 1/111, 1/240, 2/877, 3/1021ff
 Halo Hilic, 2/688
 Heartcutting technique (IC×IC), 1/110, 1/116, 3/1004, 3/1014f, 3/1033
 Heat of sorption, 1/35
 Heat-stable salts, 3/1397
 Hemoglobins, 1/521, 1/528
 1,7-Heptanediamine, 1/427, 1/504
 Heptanesulfonic acid, 2/620
 Heptyltriethylammonium, 1/505
 Herbicides, 1/237
 Hexacyanoferrate(II)/(III), 2/597
 Hexadecylpyridinium, 2/632, 3/1190
 Hexadecyl sulfate, 2/620
 Hexadecyltrimethylammonium, 1/505, 2/627
 Hexafluoroarsenate, 3/1393
 Hexafluorophosphate, 2/897, 3/1378, 3/1384, 3/1393
 Hexafluorosilicate, 3/1142f, 3/1152, 3/1393
 Hexametaphosphate, 3/1233
 Hexamethylenediamine-tetra(methylene phosphonic acid) (DEQUEST 2051), 1/94, 1/260
 1,6-Hexanediamine, 1/427, 1/433, 1/504
 Hexanesulfonic acid, 2/609ff, 2/620, 2/633, 3/1289
 1,4,7,10,13,16-Hexaoxacyclooctadecane (18-crown-6), 1/130
 Hexasaccharides, 1/308
 Hexobarbital, 2/613
 Hexosaminidase, 3/1366
 Hexoses, 2/577
 Hexuronic acid, 1/241
 1-Hexyl-3-methylimidazolium, 3/1379
 Hippuric acid, 1/235, 3/1342
 Hirudin, 1/519
 Histamine, 1/424, 3/1218
 Histidine, 1/342, 2/565
 Holmium, 1/488f, 1/494f
 Homocarnosine, 2/566
 Homocitrulline, 1/367, 2/566
 Homocysteine, 2/566, 3/1352f
 Homocystine, 2/566, 2/572
 Homogalacturonan, 1/241
 Homovanillic acid, 2/613
 Hull probe, 3/1162
 Human alpha-1-antitrypsin, 2/843
 Human growth hormone, 1/519
- Human milk oligosaccharides (HMOS), 3/1246, 3/1251
 Humic acid, 3/985, 3/1021, 3/1039, 3/1418, 3/1421, 3/1441, 3/1456
 Hyaluronan, 1/241
 Hyamine 1622
 – see Diisobutyl-[2-(2-phenoxy-ethoxy)ethyl]-dimethylbenzyl-ammonium chloride
 Hydration,
 – enthalpy, molar
 – of halide ions, 1/176
 – primary, 1/199
 – secondary, 1/199
 Hydrazine, 1/425, 2/744
 Hydrazinium compounds, 2/634f
 Hydrazinolysis, 1/329
 Hydrochloric acid, 1/39f, 2/534, 2/542ff, 2/573, 2/741, 2/776
 Hydrocortisone, 2/664, 2/826
 Hydrofluoric acid, 2/556, 3/1132, 3/1137, 3/1145
 Hydrogen
 – bonding, 2/537, 2/553, 2/683, 2/699, 2/735, 2/842
 – chloride, 3/1060
 – cyanide, 1/183, 3/1057
 – peroxide, 2/572, 2/849f, 3/1136, 3/1180
 – sulfite, 1/185, 2/790
 Hydrophobicity, 2/555, 2/591
 Hydroropes, 2/615
 Hydroxyalkane sulfonates, 2/617, 3/1177
p-Hydroxybenzene sulfonate, 2/645
p-Hydroxybenzoate, 2/901
 Hydroxycarboxylic acids, aliphatic, 1/234, 2/537
 1-Hydroxyethane-1,1-diphosphonic acid
 – see 1-Hydroxyethylidene-1,1-diphosphonic acid
 Hydroxyethyl-ethylenediaminetriacetic acid (HEDTA, Trilon D), 1/239
 1-Hydroxyethylidene-1,1-diphosphonic acid (HEDP, DEQUEST 2010), 1/94, 1/261, 1/267, 3/1405
 5-Hydroxy-3-indolylacetic acid, 2/613, 3/1357
 Hydroxyisobutyric acid, 1/474, 1/488, 2/538, 2/787
 α -Hydroxyisocaproic acid, 1/232
 3-Hydroxypyruvate, 2/566
 Hydroxylamine, 1/461, 3/1186, 3/1283
 Hydroxylaminedisulfonic acid (HADS), 3/1110
 Hydroxylaminetrisulfonic acid, 3/1110
 Hydroxyllysine, 2/565

- Hydroxymethanesulfonic acid, 1/184
 4-Hydroxymethylbenzo-18-crown-6, 1/133
 Hydroxymethylene cation, 1/39
 D-Hydroxyphenylglycine, 2/656
 Hydroxyproline, 1/349, 2/565, 2/815
 2-Hydroxypropyltrimethyl ammonium (2-HPTA), 3/1286
 Hypercarb, 2/842
 Hypersil 5 MOS, 2/622
 Hypersil APS-2, 2/697
 Hypersil Duet C18/SAX, 2/658
 Hypersil Duet C18/SCX, 2/658
 Hypersil Cyano, 2/903, 2/907
 Hypersil Gold Amino, 2/697
 Hypersil Gold C18, 2/832
 Hypersil Gold CN, 2/693
 Hypersil Gold Silica, 2/688
 Hypersil Silica, 2/688
 Hyphenated techniques, 2/853ff
 Hypobromite, 2/795, 3/998
 Hypochlorite, 2/571, 2/805, 3/986
 Hyponitrite, 1/179
 Hypophosphite, 1/181, 3/1150
 Hypotaurine, 2/815
- i*
- Ibandronate, 1/256
 Ibuprofen, 2/652, 2/664
 IC Pak Anion, 1/55, 1/280
 IC Pak Cation, 1/403
 ICP-MS, 2/855
 ICP-OES, 2/854
 Imidazole, 3/1232
 2-Imidazolidinethione, 3/1165
 Imidazolinium salts, 3/1177
 Imidazol-1-yl-acetic acid, 3/1315
 Imino acids, 2/570f
 Iminodiacetic acid (IDA), 2/639
 Iminodisulfonic acid, 3/1110
 Imipramine, 2/667
 Immunoglobulins, 1/510, 3/1361f
 Inaccuracy, 2/936
 Indigocarmine, 2/657
 Indinavir sulfate, 1/251
 Indomethacin, 2/652
 Inertsil CN-3, 2/693
 Inertsil Diol, 2/691
 Inertsil ODS 3, 2/839, 3/1304
 Inertsil ODS II, 2/633
 Inertsil NH₂, 2/697
 Initiator, 1/120
 Injection technique, large-volume, 3/1077
 Injection volume, 1/5, 1/9, 1/29, 1/32, 2/522, 2/549, 2/558, 2/597, 2/602, 2/610, 2/628
 Injector, loop, 1/5
 Inosine, 1/245
 Insitol, 1/287, 2/915, 3/1206, 3/1244
 – 1,4-diphosphate, 1/250, 3/1352
 – 4,5-diphosphate, 1/250, 3/1352
 – 1-monophosphate, 1/250, 3/1352
 – 2-monophosphate, 1/250, 3/1352
 – *myo*-, 1/288, 3/1206
 – *scyllo*-, 1/288
 – 1,2,5,6-tetraphosphate, 1/250, 3/1352
 – 1,3,4,5-tetraphosphate, 1/250, 3/1352
 – 1,4,5-triphosphate, 1/250, 3/1349
 – 1,5,6-triphosphate, 1/250, 3/1352
 Integrator, digital, 1/7, 2/940
 Interaction
 – adsorptive, 2/588
 – Coulomb, 2/734
 – dipole–dipole, 2/686, 3/1308
 – electrostatic, 1/66, 1/123, 1/481, 2/686, 2/734, 2/736
 – interionic, 2/735ff
 – ion–dipole, 1/175
 – ion–water molecule, 1/175
 – ion–molecule, 2/736
 – nonionic, 1/31, 1/294
 – π – π , 1/12, 1/31, 1/236, 1/263, 2/540, 2/551, 3/1293, 3/1308
 – sorption, 1/31
 – van der Waals, 1/66, 2/551
 Interface
 – APCI, 2/871
 – electrospray, 2/862, 2/867ff
 – particle beam, 2/805, 2/865
 – thermospray, 2/805, 2/865, 2/909
 – user, 2/942
 Interleukin-1, 1/519
 Insulin chain A, 1/364
 Inulin, 1/317, 3/1230, 3/1251
 Inulotriose, 3/1233
 Inverted sugar, 3/1207
 Iodate, 1/193, 2/794, 2/861, 2/876, 3/1019, 3/1243
 Iodide, 1/72, 1/87, 1/189, 1/219, 2/673, 2/749, 2/794, 2/808, 2/861, 3/988, 3/1041, 3/1226, 3/1241, 3/1367, 3/1449
 Iodine speciation, 2/861
 ION-100/110, 1/60
 ION-300, 1/540
 Ion
 – cloud, 2/737
 – counter, 1/30

- – analysis, 3/1272ff
- exchange process, 1/30f, 1/401
- exclusion process, 3/1/359 f
- interaction model, 2/587
- interhalide, 2/795, 2/796
- lipophilic, 2/590
- mobility, 2/732
- pair, 2/587, 2/655, 2/734
- polarizable, 1/4, 2/601
- radius, 1/175
- reflux, 3/1457
- strength, 1/133, 2/735
- suppression mode, 2/636f
- surface-active, 2/599ff
- surface-inactive, 2/615ff
- velocity, 1/732
- Ion chromatograph**
 - computer controlled, 2/942
 - process, 3/1114
 - schematics, 1/5
- Ion chromatography**
 - advantage, 1/8ff
 - capillary, 2/901, 3/979, 3/1084, 3/1313
 - concentration factor, 3/1086
 - chelation, 1/490ff, 3/1046
 - combustion, 3/1407
 - IC×IC, 1/110, 1/116, 3/1004, 3/1014, 3/1033
 - IC×IC-MS, 2/889
 - online, 3/1114
 - two-dimensional, 2/547
 - types of, 1/4f
- Ion-exchange**
 - capacity, 1/36, 1/44, 1/67, 1/77, 1/127, 1/177, 2/742, 2/801, 3/1198
 - equilibrium, 1/30
 - function, 1/4
 - model, 2/584f
 - process, 1/4, 1/30, 1/401
- Ionic liquid (IL)**, 2/894, 3/1377
- Aliquat-based, 3/1383
- tetraalkylphosphonium-based, 3/1384
- Ionization**
 - atmospheric pressure (API), 2/823, 2/867, 2/871, 2/926
 - chemical (CI), 2/865
 - electron impact (EI), 2/872
 - electrospray, 2/685, 2/865
 - fast atom bombardment (FAB), 1/337
 - ion spray, 2/868
 - thermospray, 2/865
- IonPac Analyte Trap Column (AT-ER2)**, 1/145
- IonPac AS1**, 1/67
- IonPac AS2**, 1/69
- IonPac AS3**, 1/69, 3/1240
- IonPac AS4**, 1/69, 3/1197
- IonPac AS4A-SC**, 1/69
- IonPac AS5**, 1/72, 1/92
- IonPac AS5A**, 1/78
- IonPac AS6**
 - see CarboPac PA1
- IonPac AS7**, 1/94, 1/238, 1/266, 2/749, 3/1106, 3/1156
- IonPac AS9-SC**, 1/71
- IonPac AS9-HC**, 1/73
- IonPac AS10**, 1/76
- IonPac AS11**, 1/78
- IonPac AS11-HC**, 1/81
- IonPac AS11-HC-4μm**, 1/84
- IonPac AS12A**, 1/74
- IonPac AS14**, 1/49
- IonPac AS14A**, 1/51
- IonPac AS15**, 1/52
- IonPac AS16**, 1/85
- IonPac AS17-C**, 1/86
- IonPac AS18**, 1/88
- IonPac AS18-4μm**, 1/91
- IonPac AS18-Fast**, 1/91
- IonPac AS19**, 1/107
- IonPac AS20**, 1/108
 - comparison with IonPac AS16, 1/109
- IonPac AS21**, 1/110
- IonPac AS22**, 1/100
- IonPac AS22-Fast**, 1/103
- IonPac AS22-Fast-4μm**, 1/103
- IonPac AS23**, 1/103
- IonPac AS24**, 1/111
- IonPac AS24A**, 1/114
- IonPac AS25**, 1/114
- IonPac AS26**, 1/116
- IonPac Catalyster Column (CC-ER3)**, 1/145
- IonPac Cryptand A1**, 1/138
- IonPac CS3**, 1/435
- IonPac CS5**, 1/478
- IonPac CS5A**, 1/94, 1/479
- IonPac CS10**, 1/436
- IonPac CS11**, 1/437
- IonPac CS12**, 1/406
- IonPac CS12A**, 1/407, 1/410
- IonPac CS12A-5μm**, 1/413
- IonPac CS12A-MS**, 1/414
- IonPac CS14**, 1/407, 1/415
- IonPac CS15**, 1/407, 1/418
- IonPac CS16**, 1/407, 1/419
- IonPac CS17**, 1/407, 1/421
- IonPac CS18**, 1/407, 1/421
- IonPac CS19**, 1/407, 1/421

- IonPac CS19-4μm, 1/407
 IonPac Eluent Purification Column (EP-ER1), 1/146
 IonPac Fast Anion IIIA, 1/118
 IonPac ICE-AS1, 1/535
 IonPac ICE-AS5, 3/1184
 IonPac ICE-AS6, 1/535, 1/537
 IonPac ICE-Borate, 1/546
 IonPac NS1, 1/590
 IonPac SCS-1, 1/445, 1/473, 3/1103
 Ion-pair
 – formation, 2/584
 – reagent, 2/592
 IonSwift MAX-100, 1/124
 IonSwift MAX-200, 1/124
 Irbesartan, 3/1278
 Iron, 1/481, 3/1052
 Isepamicin, 2/817
 Isoascorbic acid, 1/243, 2/662, 3/1323
 Isobutyric acid, 2/539, 3/1039
 Isocitric acid, 1/82, 1/234, 2/645, 3/1200
 Isoelectric focussing (IEF), 1/338
 Isoelectric point, 1/149
 Isoleucine, 1/342, 2/565
 – *allo*-, 2/566
 Isomaltose, 1/309, 3/1266
 Isomaltulose, 1/312, 3/1264
 Isopropanol
 – see Propanol-2
 Isopropylethylphosphonic acid, 1/81
 Isopropylmethylphosphonic acid (IMPA), 1/254, 3/1052
 Isosteviol, 3/1270
 Isovaleric acid, 2/539, 3/1039
 Itaconic acid, 1/552
- k**
- Kanamycin B, 3/1300, 3/1305
 1-Kestose, 1/313, 3/1231
 6-Kestose, 1/313
neo-Kestose, 1/313f
 Ketimine, 2/570
 α -Ketoglutaric acid, 2/541
 α -Ketoisocaproic acid, 1/232
 α -Ketoisovaleric acid, 2/555
 Ketomalonate, 1/83f
 Ketoprofen, 2/664, 2/826
 Kinetex HILIC, 2/688
 Knox plot, 1/25
 Kohlrausch square root law, 2/734
 Kraft process, 3/1418
 Krebs cycle acids, 2/541
 Kromasil-60, 2/688
- Kromasil-100, 2/688
 Kromasil CN, 2/693
 Kromasil Diol, 2/691
 Kromasil NH₂, 2/697
 KS-polyMPC, 2/700
 Kynurenine, 2/566
- I**
- Lactic acid, 1/83, 1/229, 2/538, 2/662, 2/846, 3/1039, 3/1151, 3/1201
 Lactose, 1/303, 1/310, 2/915, 3/1326
 Lactulose, 1/310, 3/1251, 3/1347
 Lanthanides, 1/474, 1/487ff, 1/494, 2/786ff
 Lanthanum, 1/488f, 1/494f
 Large-volume direct injection, 3/1077
 Latex particle
 – see Nanobead
 Lauric acid, 2/638
 Laurylether sulfate, 2/622f, 3/1190
 Lauryl-dimethylbenzyl ammonium, 2/632, 3/1190
 Lauryl pyridinium, 2/632, 3/1190
 Lauryl sulfate
 – see Dodecyl sulfate
 Law of mass action, 1/469
 LCA A01, 1/40
 LCA A03, 1/55
 LCA A04, 1/40
 LCA K01, 1/403
 LCA K02, 1/476
 LCA K06, 2/563
 LCA K07, 2/563
 LCA K13, 2/563
 LCA K14, 2/563
 Lead, 1/127, 1/477, 1/482, 1/496, 3/1216, 3/1218
 Leading effect, 1/16
 Lectins, 1/324
 Leucine, 1/342, 1/348f, 2/565, 2/714, 2/768
 Leucrose, 1/312
 Leveler, 3/1162, 3/1168
 Levoglucosan, 1/290
 Lewis acid, 1/39
 LiChrosil IC CA, 1/442
 LiChrospher CN, 2/693
 LiChrospher Diol, 2/691
 LiChrospher NH₂, 2/697
 LiChrosorb RP18, 2/600
 LiChrosorb Si-60, 2/688
 LiChrosorb Si-100, 2/688
 Lidocaine, 2/897
 Ligand
 – choice, 1/471

- concentration, 1/470
- complexing, 1/471
- effective, 1/470
- free, 1/471
- total, 1/471
- exchange, 1/182, 1/288, 1/302, 1/481, 1/483
- Limit**
 - control, 2/964
 - intervention, 2/964
 - of coverage, 2/961
 - of detection, 2/960ff
 - of determination, 2/960, 2/963
 - for standard anions, 3/978
 - for standard cations, 3/1079
 - for transition metals, 3/1076
 - of quantitation, 3/1013
 - warning, 2/964
- Lincomycin**, 2/762, 3/1229, 3/1297
- Lipoic acid**, 2/760, 3/1325
- Liquid crystal material**, 3/1388ff
- Liquor**
 - black, 3/1418
 - green, 3/1418
 - white, 3/1418
- Lithium**, 1/411, 1/420, 2/808, 3/1114
- MS spectra with different solvents, 2/874
- Loading capacity**, 1/94f, 1/301, 1/363, 1/366, 1/373, 1/528
- Lobry de Bruyn-van Ekenstein**
 - rearrangement, 1/285, 1/335
- Loschmidt number**, 2/733
- Low method**, 3/1206, 3/1208f
- Luminol**
 - see 5-Amino-2,3-dihydro-1,4-phthalazindione
- Luna C18**, 2/688, 2/852
- Luna CN**, 2/697
- Luna HILIC**, 2/692, 2/722
- Lutetium**, 1/488
- Lysine**, 1/342, 2/565, 2/766, 2/768
- Lysozyme**, 1/354, 1/362, 1/507, 1/525

- m**
- MAbPac SCX-10**, 1/513
- MAbPac SEC-1**, 2/574
- Magnesium**, 1/411, 1/420, 2/785f, 3/984, 3/1367
- Magnetic resonance imaging**, 2/605, 3/1354
- Magnevist**, 3/1355
- Malachite green**, 2/657
- Maleic acid**, 1/82, 1/233, 2/663, 2/838, 3/1210
- Malic acid**, 1/82, 1/233, 2/538, 3/552, 2/673, 2/846, 3/1012, 3/1201
- Malonic acid**, 1/82, 1/231, 2/538, 2/551f
- Maltitol**, 3/1320
- Maltodecaose**, 3/1212
- Maltodextrins**, 3/1243
- Maltoheptaose**, 1/46, 1/315, 2/712, 2/841, 3/1212
- Maltohexaose**, 1/315, 2/712, 2/841, 3/1212
- Maltononaose**, 3/1212
- Maltooctaose**, 3/1212
- Maltopentaose**, 1/315, 1/344, 2/712, 2/841
- Maltose**, 1/285, 1/302, 1/309, 2/712, 2/841, 2/915, 3/1208, 3/1212
- oligomers, 1/314, 2/712, 2/841
- Maltotetraose**, 1/315, 2/712, 2/841, 3/1208, 3/1212
- Maltotriose**, 1/315, 2/712, 2/841, 3/1208, 3/1212
- Mandelic acid**, 1/235, 2/830, 3/1338
- Manganese**, 1/409, 1/437, 1/474, 1/481, 2/849, 3/1076, 3/1367
- Mannitol**, 1/288, 1/329, 2/543, 2/547, 2/915, 3/1206, 3/1260, 3/1320, 3/1327
- Mannosan**, 1/290
- Mannose**, 1/293, 1/299, 1/324, 2/915, 3/1260
- MARGA**, ambient air monitoring system, 3/1061
- Mass transfer**
 - effect, 1/22
 - resistance to, 1/21
- Matrix elimination, inline**, 2/556, 3/1129, 3/1138
- valve switching for, 3/1129
- MCI Gel SCA04**, 1/57
- MCI Gel SCK01**, 1/403
- Mean, arithmetic**, 2/944
- Measuring cell, amperometric**, 2/743, 2/754
- Mecoprop**
 - see 2-(2-Methyl-4-chlorphenoxy)-propionic acid
- Median**, 2/937
- Meglumine**, 2/673, 3/1282
- Melamine**, 2/725, 3/1252
- Melibiose**, 1/310, 3/1347
- Melizitose**, 3/1266, 3/1268
- Mellitate**, 2/645
- Membrane**
 - cell, 1368
 - desalting, 1/337
 - Donnan, 2/534
 - polyvinylidenefluoride (PVDF), 3/1362, 2/798
 - reactor, 1/468, 2/785
- Mephobarbital**, 2/637, 2/649

- Mercury intrusion porosimetry, 1/362, 1/524
 Mercury speciation, 2/862
 Mesylate, 2/673, 3/1282
 Metabolomics, 2/921f, 3/1358
 Metanephrine, 3/1357
 Metformin
 – see 1,1-Dimethylbiguanide
 Methacrylate, 1/89, 3/1078
 Methacrylic acid esters, 1/360
 (4-Methacryloylamino)-benzo-15-crown-5, 1/132
 2-Methacryloyloxyethyl phosphorylcholine (MPC), 2/699
 Methanesulfonic acid, 1/252, 3/1154
 Methanesulfonic acid, 1/83, 1/232, 1/252, 1/406, 1/461, 1/473, 1/500, 2/545, 2/620, 3/1104, 3/1152
 Methanol, 1/10, 1/201, 2/537f, 2/543, 2/559, 2/769, 2/864, 2/867f, 3/1327
 Metharbital, 2/649
 Methionine, 1/342, 2/565, 2/766, 3/1352
 – sulfone, 2/566
 Methods
 – AOAC
 -- 995.13, 3/1260
 -- 999.14, 3/1238
 – ASTM
 -- D 4806, 3/1410
 -- D 6584, 3/1414
 -- D 6751, 3/1412
 -- D 6919-09, 3/982
 -- D 7319, 3/1410
 – DIN
 -- 38405 D19, 1/178, 1/216
 – EN
 -- 14108, 3/1412
 -- 14109, 3/1412
 -- 14214, 3/1412
 -- 14538, 3/1412
 – ISO
 -- 11206:2011, 3/1012
 -- 11292:1995, 3/1260
 -- 14911:1998, 3/982
 -- 15061:2001, 3/999
 – US EPA
 -- 300.0 (Part A), 1/100, 1/107, 1/147, 2/978
 -- 300.0 (Part B), 2/998
 -- 300.1 (Part A), 1/103, 1/107, 1/147, 2/978, 3/1002
 -- 300.1 (Part B), 3/1005
 -- 302.0, 3/1015
 -- 314.0, 1/218, 2/883, 3/1026
 -- 314.1, 1/109, 1/218, 2/883, 3/1029
 -- 314.2, 1/218, 2/883, 3/1033
 -- 317.0, 2/790, 3/1005
 -- 321.8, 3/999
 -- 326.0, 2/791, 3/1009
 -- 331.0, 1/110, 2/883, 3/1037
 -- 332.0, 2/883, 3/1037
 -- 557, 1/112, 1/240, 2/877
 Methohexital, 2/649
 Methyl amine, 1/98, 1/112, 1/501
 Methyl-*n*-amylketone (MAK), 3/1132
N-Methylaniline, 2/506
 Methylarsonic acid
 – see Monomethylarsonic acid (MMA)
 3-Methylbutanol-1, 2/559
 Methyl-*tert*-butyl ether (MTBE), 3/1022
 2-(2-Methyl-4-chlorophenoxy)propionic acid (Mecoprop), 1/236
N-Methyldiethanolamine, 1/394, 1/427, 2/903, 3/1283, 3/1395
 Methylenebisphosphonic acid, 1/257, 3/1311
 Methylene blue, 2/657
 4,4'-Methylenedianiline, 2/506
 (1S,2R)-(+)–*N*-Methylephedrine, 2/653
 3-O-Methylglucose, 3/1347
 Methyl green, 2/657
o/p-Methylhippuric acid, 1/235
 1-Methylhistidine, 2/568
 3-Methylhistidine, 2/568
 Methylhydroxylamine, 3/1284
N-Methylimidazole, 2/900
N-Methylethanamine, 3/1283
 Methyl mercury, 2/862
N-Methylmorpholine, 1/429
N-Methyloctylammonium-*p*-toluene sulfonate, 2/802
 Methyl orange, 2/650
 Methyloses, 1/293
 Methylphosphonic acid (MPA), 1/254, 3/1052
N-(Methylphosphono)glycine (Glyphosate), 2/804, 2/893
S-Methyl phosphoramidothioate, 2/892
 2-Methylpropanol-1, 2/559
N-Methyl-2-pyrrolidone (NMP), 3/1128
 Methyl red, 2/650
 Methyl sulfate, 1/250, 3/1275
 Methylsulfonate, 1/81
 Metrosep Anion Dual 1, 1/221
 Metrosep Anion Dual 2, 1/56
 Metrosep A Supp 1, 1/44, 1/54
 Metrosep A Supp 1 HS, 1/44
 Metrosep A Supp 3, 1/45
 Metrosep A Supp 4, 1/60
 Metrosep A Supp 5, 1/60

- Metrosep A Supp 7, 1/60
 Metrosep A Supp 8, 1/45
 Metrosep A Supp 10, 1/45
 Metrosep A Supp 15, 1/46
 Metrosep A Supp 16, 1/46
 Metrosep C1, 1/441
 Metrosep C3, 1/432
 Metrosep C4, 1/441
 Metrosep C5, 1/403
 Metrosep Carb1, 1/284, 1/290
 Metrosep Carb2, 1/284, 1/291
 Metrosep Organic Acids, 2/538
 Microextraction technique, 3/1125
 – valve switching for, 3/1126
 Mie scattering, 2/813
 Mikropac MCH10, 2/639
 Modifier
 – inorganic, 2/596
 – organic, 2/593f
 Molybdate, 2/608
 Molybdenum sulfur cluster, 2/608
 Moment
 – central, 2/937
 – first, 2/937
 – second, 2/937
 – zero, 2/937
 Monoalkanolamines, 2/762
 Monobromoacetic acid, 1/114, 2/878, 3/1021
 Monobromodichloroacetic acid, 1/114, 2/879,
 3/1021
 Monobromomonochloroacetic acid, 1/114,
 2/879, 3/1021
 Monobutylamine, 1/429
 Monobutyl phosphate, 1/244
 Monocarboxylic acids, aliphatic, 1/231, 1/234,
 2/534, 2/551, 3/1040
 Monochloroacetic acid, 1/83, 1/114, 2/878,
 3/1021
 Monochlorodibromoacetic acid, 1/114, 2/879,
 3/1021
 Monochloromethylenebisphosphonic acid,
 1/257, 3/1311
 Monoclonal antibodies (mAb), 1/298, 1/323,
 1/510ff, 2/518, 2/576ff, 2/842, 3/1361
 MonoDiscs, 1/172
 Monoethanolamine, 1/415, 1/427, 1/456,
 1/500, 2/819, 3/1172, 3/1395
 Monoethylamine, 1/416, 1/502, 2/609
 Monoethylene glycol, 2/560
 Monofluorophosphate (MFP), 3/1140, 3/1194
 Monohydroxysuccinic acid, 1/234
 Monoisopropanolamine, 3/1283
 Monoisopropyl sulfate, 3/996
 Monomethylamine, 1/416, 1/428, 1/501
 Monomethylarsonic acid (MMA), 2/861,
 2/923
 Monomethyl phosphate, 2/890, 2/892
 Monomethyl sulfate, 2/890, 2/892
 Mono Q, 1/368
 Mono S, 1/521
 Monosaccharides, 1/290ff, 2/755, 3/1363,
 3/1421
 – alditol, reduced, 1/328
 – compositional analysis, 1/325
 Monoseleno-metalates, 2/608
 Morphine, 2/612, 2/654
 Morpholine, 1/423, 1/465, 1/499, 3/1090
 2-(*N*-Morpholino)ethanesulfonic acid
 (MES), 1/511, 2/720
 Mucin, 1/323
 Multiple reaction monitoring (MRM), 1/240,
 2/885
 Mutarotation, 2/696
 Mupirocine, 3/1281
 Myoglobin, 1/354, 1/509, 1/517
 Myristic acid, 2/638, 3/1190
- n**
- Nalimov test, 2/953f
 Nanobead (latex)
 – anion exchanger, 1/39, 1/41, 1/63, 1/67,
 1/69, 1/191, 1/341, 1/350, 2/564, 2/800,
 3/1105
 – overview, 1/370
 – cation exchanger, 1/434ff, 2/564, 3/1256
 – cross-linking, 1/85
 – particle, 1/66
 Nanopolymer silica hybrid (NSH), 3/1282
 Naphthalene, 2/665
 Naphthalene-2,3-dialdehyde (NDA), 2/804
 Naphthalene-2-sulfonic acid, 2/593, 3/1183
 1,3,6-Naphthalenetrisulfonate, 2/647
 α-Naphthol, 2/637, 2/650
 β-Naphthol, 2/637, 2/650
 β-Naphthol orange, 2/650
 Naproxen, 2/652, 2/664, 2/670, 2/705, 2/872,
 3/1317
 Neamine, 3/1302
 Nebramine, 3/1300
 Nebramycin, 3/1300
 Nebulization, 2/731, 2/826
 Negative ion mode, 2/871, 2/884, 2/923,
 3/1038
 Neobiosamine, 3/1301
 Neodymium, 1/488
 Neokestose, 1/313

- Neomycin, 3/1301, 3/1304
 Neosporin, 3/1302
 Neridronate, 1/256
 Nernst
 – distribution coefficient, 1/18
 – equation, 2/745
 Nerve agent GB, 1/254
 Netilmicin, 2/830, 2/833, 3/1307
 Neuraminic acid, 1/328, 1/355
 Neuraminidase, 1/330, 3/1365, 3/1367
 Neurotensin, 1/523
 Neutralizer, membrane based (SRN), 3/1445
 Niacin, 3/1322
 Nickel, 1/444, 1/481, 3/997, 3/1077
 Nicotine, 2/654
 Nicotinic acid, 2/687
 Nile blue, 2/657
 Ninhydrin, 2/562, 2/570, 2/838
 Niobium, 2/607
 Nitrate, 1/69, 1/77, 1/100, 1/178, 2/599, 2/673,
 2/783, 3/979, 3/990, 3/1051, 3/1225, 3/1236,
 3/1341
 – sorption enthalpy, 1/35
 Nitrilotriacetic acid (NTA), 1/238, 3/1179
 Nitrilotris(methylenephosphonic acid) (NTP,
 DEQUEST 2000), 1/260
 Nitrilotrisulfonic acid, 1/12, 3/1110
 Nitrite, 1/69, 1/100, 1/178, 2/748, 2/783, 2/808,
 3/979, 3/990, 3/1051, 3/1225, 3/1236, 3/1341
 – amperometric detection, 3/993
 2-Nitroaniline, 2/506, 2/852
 4-Nitroaniline, 2/506
 Nitrogen mustards, 2/903
 Nitrogen oxide, 3/1057
 Nonaflate, 3/1381
 1,9-Nonanediamine, 1/427, 1/504
 Nonasaccharides, 1/333
 Norepinephrine, 2/613, 3/1357
 Norleucine, 1/342, 1/348, 3/1335
 Normetanephrine, 3/1357
 Nortryptiline, 2/667
 Nova-Pak CN, 2/693
 Novosep A-1, 1/156f
 Novosep A-2, 1/63
 Nucleic acids, 1/368ff, 2/572
 Nucleobases
 – purine, 2/721
 – pyrimidine, 2/721
 Nucleodex α -PM, β -PM, γ -PM, 2/694
 Nucleodex β -OH, 2/694
 Nucleodur HILIC, 2/699
 Nucleosides, 1/245, 2/572, 2/721
 Nucelosil 50, 2/688
 Nucleosil 100, 2/688
 Nucleosil 10 Anion, 1/127
 Nucleosil 10 C8, 2/625
 Nucleosil 5 SA, 1/439
 Nucleosil 10 SA, 1/439
 Nucleosil CN, 2/693
 Nucleosil NH₂, 2/697
 Nucleosil OH, 2/691
 Nucleotides, 1/245
 – phosphate, 1/246
 Nystose, 1/313, 3/1231
- o**
- Obelisc N, 2/658, 2/700
 Obelisc R, 2/658, 2/700
 Obstruction factor, 1/22
 o-Cresol, 2/637
 1,8-Octanediamine, 1/427, 1/504
 Octanesulfonic acid, 2/543, 2/545, 2/620
 1-Octyl-3-ethylimidazolium, 3/1379
 Octylphenoxyethoxyethyl-dimethylbenzyl
 ammonium, 2/632, 3/1190
 Octyl sulfate, 2/620
 Ohm's law, 2/732
 Olefin sulfonates, 2/617, 3/1177
 Oligonucleotides, 1/368, 1/372, 1/387, 2/724
 – antisense, 1/368
 – purification, 1/373
 – secondary structures, 1/376
 – trityl-on, 1/370
 Oligosaccharides, 1/308ff, 1/323, 2/841,
 2/917f, 3/1212
 – derived from glycoproteins, 1/320ff, 2/917f
 – – analysis, 3/1361ff
 – – complex type, 1/321
 – – compositional analysis, 1/325
 – – data bank, 1/338
 – – hybride type, 1/322
 – – mannose type, 1/321
 – – mapping, 1/325, 3/1364
 – – retention behavior, 1/331
 – – separation and detection, 1/329ff
 – – sialylated, 1/335
 – – structural analysis, 1/323ff
 – – structural isomer, 1/329
 – – structure, 1/324
 – mass spectra, 2/919
 Olpadronate, 1/256
 OmniPac PAX-100, 2/642
 OmniPac PAX-500, 2/554, 2/642, 2/750
 OmniPac PCX-100, 2/642
 OmniPac PCX-500, 2/642
 OnGuard cartridges, 3/996, 3/1030, 3/1441

- Opium alkaloids, 2/611f
 Orange I, 2/650, 657
 Orange II, 2/650, 657
 Orange G, 2/657
 Organophosphates, 1/244ff
 Organosulfates, 1/244ff
 Organosulfonates, 1/244ff
 ORH 801, 2/541
 Orifice, 2/870
 Ornithine, 1/342
 Orthophosphate, 1/69, 1/100, 1/118, 1/181, 2/550, 2/556, 2/558, 2/771, 2/798f, 2/837, 2/979, 3/1141, 3/1181, 3/1219, 3/1391
 Orthophosphite, 1/181, 3/1141, 3/1151
 Orthosilicate, 2/548, 2/550, 2/771, 2/799, 3/981, 3/1073, 3/1116
 Osmate, catalyzed reaction to triiodide, 3/1020
 Osmium tetroxide, 3/1020
 Ostwald
 – absorption coefficient, 3/1058
 – dilution law, 1/206
 Outlier, 2/953
 – test, 2/953ff
 – acc. to Grubbs, 2/955
 – acc. to Nalimov, 2/953
 Ovalbumine, 1/323, 1/354
 – phosphorylation pattern, 1/356
 Overvoltage
 – passage, 2/771
 – concentration, 2/771
 7-Oxabicyclo[2.2.1]-heptane-2,3-dicarboxylic acid (Endothall), 1/237, 2/892
 Oxalacetic acid, 1/541
 Oxalic acid, 1/82, 1/231, 1/470f, 2/534, 2/551, 2/564, 2/850, 3/1079, 3/1337, 3/1397, 3/1418
 Oxamic acid, 1/232
 Oxyhalides, 1/126
 Ozonation
 – of cellulose, 3/1420
 – of drinking water, 2/997
- p**
 Palatinitol, 1/312, 3/1264
 Palatinose
 – see Isomaltulose
 Palmitic acid, 2/638
 Pamidronate
 – see 3-Amino-1-hydroxypropylidene-1,1-bisphosphonate
 Pancreatin, 1/366
 Pantothenic acid, 3/1322
 Papain, 1/511
 Papaverin, 2/615, 2/654
- PAR
 – see 4-(2-Pyridylazo)resorcinol
 Parameter
 – experimental retention-determining, 2/589ff
 – of nonsuppressed systems, 1/201ff
 – of suppressed systems, 1/177ff
 – information, 2/936f
 Paraquat, 1/431, 1/498, 2/675
 Paromomycin, 3/1277
 Particle-into-liquid sampler (PILS), 3/1064
 Partisil PAC, 2/710
 Partisil Si, 2/688
 PCR process, 1/384
 Peak, 1/15
 – area, 2/937, 2/938, 2/940
 – asymmetry, 1/15
 – broadening, 1/19, 1/22f, 2/543
 – dispersion, 1/540
 – efficiency, 2/775
 – form, 1/15
 – Gauß curve, 1/16
 – height, 2/743, 2/938ff
 – maximum, 2/937
 – symmetry, 2/629
 – system, 1/129, 1/210ff, 2/802
 – variance, 1/19
 – volume, 2/847
 – width, 1/20
 – at half hight (PWHH), 1/363, 2/939
 Pectin, 1/241
 – hydrolysate, 1/294
 D-Penicillamine, 2/572
 D-Penicillaminesulfonic acid, 2/572
 Penicillin G, 2/674, 2/705, 2/718, 3/1295
 Penicillin V, 3/1295
 n-Pentanol, 2/559
 Pentasaccharides, 1/308
 Pentitol, 1/287
 Peptides, 2/804
 Peracetic acid, 3/1181
 Perborate, 3/1180, 3/1419
 Perchlorate, 1/82, 1/87, 1/108, 2/745, 2/883ff, 3/1024ff, 3/1338, 3/1393
 – survey of IC techniques, 3/1026
 Perfluorocarboxylic acid (PFCA), 3/1451
 Perfluorooctanesulfonic acid (PFOS), 3/1451
 Perfluorooctanoic acid (PFOA), 3/1451
 Perfluoropropionic acid (PFPA), 3/1308
 Peroxoborate anion, 3/1180
 Peroxohydroxide anion, 3/1138
 Peroxide bleach, 1/260, 3/1180
 Peroxodisulfate, 1/205, 2/601

- Peroxomonosulfate, 1/205
- Phases
 - aluminum oxide, 1/138ff
 - aminopropyl, 1/281
 - cyanopropyl, 2/600, 1/498
 - crown ether, 1/130ff
 - polyamide, 1/132
 - synthesis, 1/132f
 - cryptand, 1/135ff
 - mixed-mode, 2/640
 - octadecyl, 1/5, 1/281
 - volume ratio, 1/32
- Phenobarbital, 2/613, 2/637, 2/649
- Phenol, 2/636
- Phenoxyacetic acid, 1/542, 1296
- Phenoxycarboxylic acid, 1/235, 3/1296
- Phenylalanine, 1/341f, 1/350, 2/565
- 1-Phenyl-ethane-1,2-diphosphonic acid, 1/262
- 1-Phenyl-ethane-1,2,2-triphosphonic acid, 1/262
- 1-Phenyl-ethane-1,2,2-tris(P-methyl-phosphinic acid), 1/262
- 1-Phenyl-ethene-1-phosphonic acid, 1/262
- trans*-1-Phenylethene-2-phosphonic acid, 1/262
- Phenylethylamine, 3/1218
- Phenylglyoxylic acid, 3/1338
- Phenylisothiocyanate (PITC), 2/562
- Phenylphosphonate, 2/646f
- Phenylthiohydantoin (PTH), 2/562
- Phosphate
 - see Orthophosphate
- Phosphatidylcholine, 3/1238
- Phosphite
 - see Orthophosphite
- Phosphodiesterase-II (PDase-II), 1/381
- Phosphoenolpyruvate, 3/1360
- 6-Phosphogluconate, 3/1360
- 2-Phosphoglycerate, 3/1360
- 3-Phosphoglycerate, 3/1360
- Phospholipids, 2/609
- Phosphonic acids, 1/254
- Phosphonium compound, 2/634
- Phospholipase D, 3/1238
- 2-Phosphonobutane-1,2,4-tricarboxylic acid (PBTC), 1/260, 1/267
- Phosphonopropanetricarboxylic acid, 1/266
- Phosphorothioate, 1/368, 1/382, 1/390
- Phosphorylcholine (PC), 2/699f
- Phosphorvanadomolybdic acid, 1/262, 2/798
- Phthalate, 1/83, 2/645, 2/809, 3/1079
- o*-Phthaldialdehyde (OPA), 2/562, 2/570, 2/804
- Phytic acid, 2/645, 3/1239f
- 4-Picoline, 1/506
- Picric acid, 2/573
- PILS
 - see Particle-into-liquid sampler
- Pinnacle II CN, 2/693
- Pinnacle II NH₂, 2/697
- Piperazine, 3/1396
- Piperidinium, 3/1377
- pK values
 - acetic acid, 2/550
 - acrylic acid, 2/550
 - adipic acid, 2/550
 - aliphatic dicarboxylic acids, 1/233
 - ammonium, 1/456
 - aromatic monocarboxylic acids, 1/236
 - arsenite, 1/179
 - aspartame, 3/1223
 - azide, 3/1343
 - barbital, 2/615
 - barbituric acid, 2/613
 - benzoic acid, 1/208, 1/236
 - boric acid, 2/545
 - *iso*-butyric acid, 2/550
 - *n*-butyric acid, 2/550
 - caffeine, 3/1223
 - carbohydrates, 1/281
 - carbonic acid, 1/194
 - citric acid, 1/208, 2/550
 - cyanate, 3/1455
 - cyanide, 3/1455
 - 2,3-diaminopropionic acid (DAP), 1/449
 - diethylamine, 1/456
 - formic acid, 2/550
 - fumaric acid, 1/208, 2/550
 - glycolic acid, 2/550
 - hippuric acid, 1/236
 - hydroxide substituted dicarboxylic acids, 1/233
 - *p*-hydroxybenzoic acid, 1/216
 - isopropyl methylphosphonic acid, 1/255
 - lactic acid, 1/233, 2/550
 - maleic acid, 1/233, 2/550
 - malic acid, 1/233
 - malonic acid, 1/233, 2/550
 - mandelic acid, 1/233, 1/236, 2/550
 - methylphosphonic acid, 1/255
 - monoethylamine, 1/456
 - monomethylamine, 1/456
 - morpholine, 1/456
 - naproxen, 2/670

- nicotinic acid, 1/208
- orthophosphoric acid, 1/193
- oxalic acid, 1/233, 2/550
- phthalic acid, 1/215
- poly(butadiene-maleic acid), 1/440
- propionic acid, 2/550
- pyruvic acid, 1/233, 2/550
- saccharin, 2/772, 3/1223
- salicylic acid, 1/208
- succinic acid, 1/208, 1/233, 2/550
- tartaric acid, 1/233, 2/550
- tartronic acid, 1/233
- triethanolamine, 1/456
- trimethylamine, 1/456
- Plasma etching, 3/1123
- Plate
 - height, 1/19, 1/23ff
 - effective, 1/20
 - reduced, 1/25
 - theoretical, 1/19, 1/24
 - number, 1/19
 - effective, 1/20
- Platinum, 2/547, 2/769
- PLRP-S, 3/1324
- Polaris NH₂, 2/697
- Polyalcohols, cyclic
 - see Cyclitols
- Polyamines, 1/496f, 2/804
- Poly(butadiene-maleic acid) (PBDMA), 1/440, 1/464
- Polycarboxylic acid, 3/1105
- PolyCAT A, 2/698
- Polydeoxyadenosine, 1/377
- Polydeoxyguanosine, 1/377
- Polydextrose, 3/1251
- Polyether
 - bicyclic, 1/247
 - cyclic, 1/130
- Polyfructans, 1/317
- PolyHydroxyethyl A, 2/698
- Polymerization
 - bead, 1/37
 - radical, 1/120
 - suspension, 1/122
- Polyphosphate, 1/86, 1/227, 2/772, 2/797ff, 2/804, 3/1232
- Polyphosphinic acid, aliphatic, 1/261
 - retention behavior, 1/263f
 - stereoisomer, 1/263
 - structural isomer, 1/263
- Polyphosphonic acid, aliphatic, 1/258, 1/262f, 2/797f, 2/804, 3/1105, 3/1178, 3/1403
 - diastereomer, 1/266
- geminal, 1/261
- retention behavior, 1/263f
- rotational isomer, 1/263
- stereoisomer, 1/263
- structural isomer, 1/263
- vicinal, 1/261
- Polyphosphoric acid, 1/222
- Polysaccharides, 1/282, 1/314ff
- Polyspher CHCA, 3/1213
- Polyspher IC AN-1, 1/55
- Polyspher OA-HY, 3/1039
- PolySulfoethyl A, 2/698
- Poly(thiometalate), 2/608
- Polythionates, 2/601, 3/1110
- Polythymidylic acids, 2/724
- Porogen, 1/120, 1/361
- Poroshell HILIC, 2/688
- Porosimetry, mercury intrusion, 1/362, 1/524
- Positive ion mode, 2/910, 2/918, 2/924
- Postcolumn
 - addition, of NaOH, 1/288, 1/294ff
 - derivatization, 2/783ff
- Post-translational modifications, 1/320, 2/520, 2/577, 2/841, 2/843
- Potassium, 1/411, 1/418, 1/420, 2/673, 2/706, 2/741, 2/803, 2/854, 2/907, 3/984, 3/1088, 3/1163
- Potential
 - Galvani, 2/771
 - equilibrium, 2/771
 - limit, 2/770
 - sequence
 - for amino acid analysis, 2/767
 - for carbohydrate analysis, 2/753
 - standard, 2/745
 - working, 2/745
- Power function, 2/823f
- Praseodymium, 1/488, 1/494f
- Prebiotics, 3/1248
 - effect, 3/1246
- Precision, 2/906, 2/944, 2/953
- Preconcentration
 - technique, 3/1070
 - via chelation, 3/1374
- Prednisone, 2/664
- Preservative, 3/1220ff, 3/1254f
- Primesep 100, 2/658
- Primesep 200, 2/658
- Primesep B, 2/658
- Primesep B2, 2/658
- Primesep D, 2/658
- Primesep SB, 2/837
- Primidone, 2/826

- Procain penicillin, 3/1295
 - Prodigy, 2/688
 - Progesterone, 2/826
 - Proline, 1/342, 2/565, 3/1/387
 - Prontosil, 2/688
 - ProntoSIL CN, 2/693
 - ProntoSIL Diol, 2/691
 - ProPac IMAC-10, 1/493
 - ProPac SAX-10, 1/354
 - ProPac SCX-10, 1/507
 - ProPac SCX-20, 1/521
 - ProPac WAX-10, 1/354
 - ProPac WCX-10, 1/507
 - 1,2-Propanediamine, 1/427, 1/433, 1/503f
 - Propanephosphonic acid, 1/255, 3/1292
 - Propanesulfonic acid, 2/620
 - 1,2,3-Propanetricarboxylate, 2/645
 - 2-Propanol, 2/559, 2/853, 3/1128
 - n*-Propanol, 2/560
 - Propionaldehyde, 2/757
 - Propionic acid, 1/83, 1/243, 2/537, 2/551, 2/662, 2/890, 3/1039, 3/1398
 - n*-Propylamine, 1/503
 - Propylene glycol, 2/560
 - monomethylether (PMA), 3/1132
 - ProSwift SAX-1S, 1/360
 - ProSwift SCX-1S, 1/524
 - ProSwift WAX-1S, 1/360
 - ProSwift WCX-1S, 1/524
 - Proteins, 351ff
 - aggregates, 2/573
 - deamidation, 1/518f
 - hydrolysis, 2/573
 - microheterogeneous, 1/354
 - post-translational modifications, 1/320
 - precipitation, 3/1340
 - recombinant, 1/518
 - therapeutic, 1/510, 1/518
 - Protein A, 1/512
 - Proteoglycan, 1/320, 1/335
 - Protopanaxadiol, 2/818
 - Protopanaxatriol, 2/818
 - Protriptyline, 2/667
 - PRP-1, 2/590
 - PRP-X100, 1/40
 - PRP-X110, 1/40
 - PRP-X200, 1/403
 - PRP-X300, 2/540
 - Pseudoephedrine, 2/817, 3/1273
 - (1R,2R)-(-)-Pseudoephedrine, 2/653
 - (1S,2S)-(+)-Pseudoephedrine, 2/653
 - Pull mode, 3/1072
 - Pullulan, 1/319, 1/323
 - Pullulanase, 1/319
 - Pulse sequence
 - for amines, 2/759
 - for amino acids, 2/767
 - for ethanolamines, 2/765
 - for primary alkylamines, 2/766
 - with three potentials, 2/753
 - with four potentials, 2/753
 - multicyclic, 2/761f, 2/775
 - Pump, analytical, 1/5, 1/272, 1/300, 1/305, 3/1070, 3/1081, 3/1145, 3/1374
 - Purine bases, 2/721
 - Purosphere Star RP-18, 3/1269
 - Push mode, 3/1072
 - Putrescine, 1/424, 1/496, 3/1218
 - Pyridine, 1/506
 - Pyridoxine, 3/1322
 - 4-(2-Pyridylazo)resorcinol (PAR), 2/784, 3/1101
 - Pyrimidines, 2/721
 - Pyrogallic acid, 2/637
 - Pyroglutamate aminopeptidase, 2/523
 - Pyromellitate
 - see 1,2,4,5-Benzenetetracarboxylate
 - Pyrophosphate, 1/223, 3/1178, 3/1236
 - Pyrophosphoric acid, 1/410
 - Pyrrolidinium, 3/1377
 - Pyruvic acid, 1/83, 2/541, 2/553, 2/890, 3/1200
- q**
- Qualification
 - installation (IQ), 2/943
 - operation (OQ), 2/943
 - performance (PQ), 2/943
 - vendor (VQ), 2/943
 - Quantity
 - statistical, 2/944
 - thermodynamic, 1/18
 - Quaternary ammonium compounds, aliphatic, 1/505, 2/745, 3/1293
 - Quaternary phosphonium compounds, 2/634
 - Quinaldic acid, 2/492
 - Quinic acid, 1/83, 1/243, 2/662, 3/1199, 3/1262
 - Quinine, 2/654
- r**
- Radionuclides, 2/847
 - Radiostrontrium analysis, 2/847
 - Radius, ionic, 1/176
 - Raffinose, 1/286, 1/312, 3/1327
 - Rayleigh
 - equation, 2/869

- scattering, 2/813
- Reaction quantum yield, 2/848
- Reagent-free ion chromatography (RFIC)
 - RFIC-EG, 1/108, 1/143
 - RFIC-ER, 1/102, 1/145
 - RFIC-ESP, 3/1070, 3/1081, 3/1441
- Reagents
 - 9-anthryldiazomethane (ADAM), 2/810
 - Arsenazo I, 2/786
 - Arsenazo III, 2/786
 - cerium(IV), 2/806
 - delivery, 2/785
 - *o*-dianisidine (ODA), 2/790, 3/1005
 - 1,5-diphenylcarbazide (DPC), 2/797
 - ferric nitrate, 2/797
 - ion-pair, 1/4
 - Luminol, 1/484, 2/550, 2/849, 3/1100
 - naphthalene-2,3-dialdehyde (NDA), 2/804
 - PAR, 1/480, 2/784, 3/1103
 - PAR/ZnEDTA, 1/476, 2/784
 - phenylisothiocyanate (PITC), 2/562
 - phenylthiohydantoin (PTH), 2/562
 - *o*-phthalodialdehyde (OPA), 2/562, 2/570, 2/804
 - potassium iodide, acidified, 2/791, 3/1009
 - sodium molybdate, 2/550, 2/799
 - Thiofluor, 2/805
 - Tiron, 2/785
- Rebaudioside B, C, D, F, 3/1268
- Recovery, 2/958, 2/965, 2/967
- Reddening agent, 3/1236
- Regenerant delivery, 1/154, 1/158, 1/163ff
- Regeneration, 1/154
 - continuous, 1/158f, 1/162, 1/163ff, 1/451f, 1/545
 - periodic, 1/153, 1/155
- Regression, 2/950
 - coefficient, 2/948
 - function, 2/947
 - linear, 2/948
 - model, 2/953
 - weighed, 2/953
- Relaxation
 - constant, 2/738
 - effect, 2/738
 - time, 2/737
- Residual
 - analysis, 2/952
 - standard deviation, 2/949, 2/951f
- Resins
 - alumina, 1/138ff
 - crown ether modified, 1/130ff
 - cryptand modified, 1/137ff
 - divinylbenzene, 1/5, 1/48, 2/583f, 3/1278
 - Dowex 1x10, 1/450
 - ethylvinylbenzene/divinylbenzene, 1/49ff, 1/282f
 - functionalization, 1/39f, 1/67
 - – amination, 1/39
 - – chloromethylation, 1/39
 - gel-type, 1/37
 - hyperbranched condensation polymers, 1/95
 - – carbonate-selective, 1/100ff
 - – hydroxide-selective, 1/105ff
 - hydroxyethylmethacrylate, 1/56
 - iminodiacetic acid, 3/1374
 - ionic form, 1/38
 - macroreticular, 1/38
 - mesoporous, 1/38
 - microporous, 1/37
 - polyamide crown ether, 1/131f
 - poly(benzo-15-crown-5), 1/447
 - poly(glycidylmethacrylate) (PGMA), 1/493
 - polymethacrylate, 1/54f, 1/432f
 - polystyrene-*co*-divinylbenzene, 1/37, 1/40f
 - polyvinyl alcohol, 1/60f, 1/432f
 - polyvinylpyrrolidone, 3/1203, 3/1216, 3/1376, 3/1421, 3/1441
 - porosity, 1/37
 - shrinking process, 1/38, 3/1444
 - swelling process, 1/38
 - XAD-1, 1/40
- Resistivity, 2/732
- Restriction fragments, Φ X174/Hae III, 1/385
- Resolution, 1/17, 1/20
- Resorcinol, 1/476, 2/637, 2/783, 3/1101
- Result, 2/945
- Retention
 - temperature dependence, 1/33
 - time
 - – gross, 1/15
 - – solute, 1/15
- Reversed osmosis, 2/573
- Rezex ROA Organic Acid, 2/540
- Rezex RPM Monosaccharide, 1/289
- Rhamnogalacturonan II, 1/241
- Rhamnose, 1/285, 1/293, 1/300, 3/1213, 3/1260, 3/1328, 3/1363
- Rhodamine B, 2/657
- Riboflavin, 3/1322
- Ribonuclease A, 1/362, 1/507, 1/520
 - crystal structure, 1/520
- Ribonuclease B, 1/323
- Ribonucleic acid (RNA), 1/245, 1/376
- D-Ribose, 1/303, 3/1260, 3/1327

- Ribose-5-phosphate, 3/1360
 Risedronate, 1/256, 2/716
 Robustness, of analytical method, 2/950
 Rubidium, 1/447
 Rubososide, 3/1268
 Ruhemann's Purple, 2/570
- s**
- Saccharides, 3/1212
 Saccharin, 3/1163, 3/1223, 3/1264
 Salicylic acid, 2/664, 2/718, 2/809, 3/1160
 Saliva analysis, 3/1336
 Samarium, 1/488
 Sample
 – dialysis, 3/1453
 – dilution, 3/1431
 – filtration, 3/1425
 – – tangential flow, 3/1429
 – loading capacity, 1/94, 1/301, 1/363ff, 1/373
 – modification, chemical, 3/1455
 – neutralization, 3/1443
 – preconcentration, 3/1070
 – preservation, 3/1425
 – pretreatment cartridges, 3/985, 3/1437
 – preparation, 2/935, 3/1423ff
 – – automated in-line, 3/1425
 – – combustion, 3/1407, 3/1446ff
 – – for amino acid analysis, 2/572f
 – – on-column, 2/647
 – – oxidative bomb, 3/1448
 – storage, 2/935
 Sampling, 2/935
 SAR-40-0.6, 1/214
 Sarcosine, 2/568
 Sarin (GB), 1/254, 3/1052
 Scatter, 2/945f
 Schiff base, 1/281, 2/570, 2/691, 2/711, 2/819
 Schöninger
 – combustion, 3/1321
 – flask, 3/1322
 SDS Polyacrylamide Gel Electrophoresis (SDS-PAGE), 3/1362
 Secobarbital, 2/637, 2/649f
 Sedoheptulose-7-phosphate, 3/1360
 Selectivity, 1/18
 – coefficient, 1/30, 1/326, 1/472
 – of nanobead-agglomerated anion exchangers, overview, 1/67ff
 – solvent influence, 1/199
 Selenate, 1/90, 1/180, 2/864
 Selenite, 1/90, 1/180, 2/864
 Selenium speciation, 2/864
 Selenocyanate, 2/864
- Selenometalate, 2/607
 Sensitivity, 2/533, 2/559, 2/739, 2/743, 2/766, 2/948, 2/951
 – of the detection system, 2/947
 – of the method, 2/947
 Separation techniques, survey, 3/976
 Separator column
 – 2622, 2/563
 – 0354675T, 2/563
 – 1154110T, 2/563
 – Acclaim HILIC-10, 2/702
 – – separation of hydrophilic pharmaceuticals, 2/718
 – Acclaim Mixed-Mode HILIC-1, 2/702
 – – comparison with LiChrosorb Diol, 2/703
 – Acclaim Mixed-Mode silica columns, structural & technical properties, 2/702
 – Acclaim Mixed-Mode WAX-1, 1/241, 2/646, 2/659, 2/701, 2/725, 3/1042, 3/1044, 3/1226, 3/1278, 3/1318
 – Acclaim Mixed-Mode WCX-1, 2/664, 2/701, 3/1253
 – – comparison with Acclaim 120 C8, 2/666f
 – – RP mode *vs.* HILIC mode, 2/701
 – – separation of antidepressant drugs, 2/667
 – – separation of quaternary ammonium compounds, 2/668
 – – separation of tetrabutylphosphonium bromide, 2/668
 – Acclaim OA, 3/1202
 – – separation of acrylic acids, 2/716
 – – separation of lactic acid, ascorbic acid, and acetic acid, 2/715
 – Acclaim Polar Advantage II (PA2), 2/832, 3/1307, 3/1310
 – Acclaim Surfactant, 3/1288
 – Acclaim Surfactant Plus, 2/619, 2/622, 2/626, 2/628, 3/1182, 3/1188, 3/1289
 – Acclaim Trinity P1, 2/669, 2/701, 2/827, 2/829, 3/1377
 – – comparison with Acclaim Trinity P2, 2/678
 – – comparison with ZIC-HILIC, 2/704ff
 – – schematic illustration of, 2/669
 – – separation of pharmaceutical counterions, 2/673
 – – separation of sodium and chloride ions, 2/672
 – Acclaim Trinity P2, 2/676, 2/701
 – Acclaim Trinity Q1, 2/675
 – Accucore C8, 3/1172
 – Accucore C18, 3/1175
 – Accucore HILIC, 2/688, 3/1253
 – Allsep A-2 Anion, 1/60

- Allsep Anion, 1/56, 1/59
- Alltima Amino, 2/697
- Alltima HP Cyano, 2/693
- Alltima HP Silica, 2/688
- Allure PFP, 2/833, 3/1308
- amide-bonded silica, 2/696
- Aminex 50W-X4, 2/542
- Aminex HPX-85H, 2/558
- Aminex HPX 87H, 2/540, 2/548, 2/845
- AminoPac PA10, 1/341, 1/348
- AminoPac PC-1, 2/564
- aminopropyl-bonded silica, 2/696
- AN1, 1/43
- AN2, 1/43
- AN300, 1/43
- Apex II Diol, 2/691
- Asahipac NH₂P-50 4E, 2/711
- Ascentis ES Cyano, 2/693
- Ascentis Express ES-Cyano, 2/693
- Ascentis Express HILIC, 2/688
- Ascentis Silica, 2/688
- Atlantis, 2/688
- Betasil CN, 2/693
- Betasil Diol, 2/691
- Betasil Silica, 2/688
- BlueShell HILIC, 2/688
- Bluespher Diol, 2/691
- Bluespher Si, 2/688
- μBondapak CN, 2/693
- Capcell Pak C18 MG II, 3/1269
- CarboPac MA1, 1/287
- CarboPac PA1, 1/282
- CarboPac PA10, 1/284, 1/296
- CarboPac PA20, 1/284, 1/300, 1/325
- CarboPac PA100, 1/284, 1/316
- CarboPac PA200, 1/284, 1/316
- CarboPac SA10, 1/284, 1/301
- Chelex 100, 1/493
- cyanopropyl-bonded silica, 2/600, 2/692
- Cyclobond I/II, 2/694
- cyclodextrin-bonded phases, 2/693
- Discovery Cyano, 2/693
- DNAPac PA100, 1/369
- DNAPac PA200, 1/369
- DNASwift SAX-1S, 1/386
- efficiency, 1/19ff
- Eurospher I/II Amino, 2/697
- Eurospher I/II Cyano, 2/693
- Eurospher I/II Diol, 2/691
- Eurospher I/II Si, 2/688
- ExcelPak ICS A23
- – see GelPack GL-IC-A23
- Fast-Sep Cation, 1/435
- GelPack GL-IC-A23, 1/41
- Gemini C18, 3/1384
- Genesis Amino, 2/697
- Genesis CN, 2/693
- GlycanPak AXH-1, 2/842
- GraceSmart C18, 2/835
- Halo Hilic, 2/688
- Hypercarb, 2/842
- Hypersil 5 MOS, 2/622
- Hypersil APS-2, 2/697
- Hypersil Duet C18/SAX, 2/658
- Hypersil Duet C18/SCX, 2/658
- Hypersil Cyano, 2/903, 2/907
- Hypersil Gold Amino, 2/697
- Hypersil Gold C18, 2/832
- Hypersil Gold CN, 2/693
- Hypersil Gold Silica, 2/688
- Hypersil Silica, 2/688
- IC Pak Anion, 1/55, 1/280
- IC Pak Cation, 1/403
- Inertsil CN-3, 2/693
- Inertsil Diol, 2/691
- Inertsil ODS 3, 2/839
- Inertsil ODS II, 2/633
- Inertsil NH₂, 2/697
- ION-100/110, 1/60
- ION-300, 1/540
- IonPac Analyte Trap Column (AT-ER2), 1/145
- IonPac AS1, 1/67
- IonPac AS2, 1/69
- IonPac AS3, 1/69, 3/1240
- IonPac AS4, 1/69, 3/1197
- IonPac AS4A-SC, 1/69
- IonPac AS5, 1/72, 1/92
- IonPac AS5A, 1/78
- IonPac AS6
- – see CarboPac PA1
- IonPac AS7, 1/94, 1/238, 1/266, 2/749, 3/1106, 3/1156
- IonPac AS9-SC, 1/71
- IonPac AS9-HC, 1/73
- IonPac AS10, 1/76
- IonPac AS11, 1/78
- IonPac AS11-HC, 1/81
- IonPac AS11-HC-4μm, 1/84
- IonPac AS12A, 1/74
- IonPac AS14, 1/49
- IonPac AS14A, 1/51
- IonPac AS15, 1/52
- IonPac AS16, 1/85
- IonPac AS17-C, 1/86
- IonPac AS18, 1/88

- IonPac AS18-4µm, 1/91
- IonPac AS18-Fast, 1/91
- IonPac AS19, 1/107
- IonPac AS20, 1/108
- comparison with IonPac AS16, 1/109
- IonPac AS21, 1/110
- IonPac AS22, 1/100
- IonPac AS22-Fast, 1/103
- IonPac AS22-Fast-4µm, 1/103
- IonPac AS23, 1/103
- IonPac AS24, 1/111
- IonPac AS24A, 1/114
- IonPac AS25, 1/114
- IonPac AS26, 1/116
- IonPac Catalyzer Column (CC-ER3), 1/145
- IonPac Cryptand A1, 1/138
- IonPac CS3, 1/435
- IonPac CS5, 1/478
- IonPac CS5A, 1/94, 1/479
- IonPac CS10, 1/436
- IonPac CS11, 1/437
- IonPac CS12, 1/406
- IonPac CS12A, 1/407, 1/410
- IonPac CS12A-5µm, 1/413
- IonPac CS12A-MS, 1/414
- IonPac CS14, 1/407, 1/415
- IonPac CS15, 1/407, 1/418
- IonPac CS16, 1/407, 1/419
- IonPac CS17, 1/407, 1/421
- IonPac CS18, 1/407, 1/421
- IonPac CS19, 1/407, 1/421
- IonPac CS19-4µm, 1/407
- IonPac Eluent Purification Column (EP-ER1), 1/146
- IonPac Fast Anion IIIA, 1/118
- IonPac ICE-AS1, 1/535
- IonPac ICE-AS5, 3/1184
- IonPac ICE-AS6, 1/535, 1/537
- IonPac ICE-Borate, 1/546
- IonPac NS1, 1/590
- IonPac SCS-1, 1/445, 1/473, 3/1103
- IonSwift MAX-100, 1/124
- IonSwift MAX-200, 1/124
- Kinetex HILIC, 2/688
- Kromasil-60, 2/688
- Kromasil-100, 2/688
- Kromasil CN, 2/693
- Kromasil Diol, 2/691
- Kromasil NH₂, 2/697
- KS-polyMPC, 2/700
- LCA A01, 1/40
- LCA A03, 1/55
- LCA A04, 1/40
- LCA K01, 1/403
- LCA K02, 1/476
- LCA K06, 2/563
- LCA K07, 2/563
- LCA K13, 2/563
- LCA K14, 2/563
- length, 1/177
- LiChrosil IC CA, 1/442
- LiChrospher CN, 2/693
- LiChrospher Diol, 2/691
- LiChrospher NH₂, 2/697
- LiChrosorb RP18, 2/600
- LiChrosorb Si-60, 2/688
- LiChrosorb Si-100, 2/688
- Luna C18, 2/688, 2/852
- Luna CN, 2/697
- Luna HILIC, 2/692, 2/722
- MAbPac SCX-10, 1/513
- MAbPac SEC-1, 2/574
- maintenance, 3/1456f
- MCI Gel SCA04, 1/57
- MCI Gel SCK01, 1/403
- Metrosep Anion Dual 1, 1/221
- Metrosep Anion Dual 2, 1/56
- Metrosep A Supp 1, 1/44, 1/54
- Metrosep A Supp 1 HS, 1/44
- Metrosep A Supp 3, 1/45
- Metrosep A Supp 4, 1/60
- Metrosep A Supp 5, 1/60
- Metrosep A Supp 7, 1/60
- Metrosep A Supp 8, 1/45
- Metrosep A Supp 10, 1/45
- Metrosep A Supp 15, 1/46
- Metrosep A Supp 16, 1/46
- Metrosep C1, 1/441
- Metrosep C3, 1/432
- Metrosep C4, 1/441
- Metrosep C5, 1/403
- Metrosep Carb1, 1/284, 1/290
- Metrosep Carb2, 1/284, 1/291
- Metrosep Organic Acids, 2/538
- Mikropac MCH10, 2/639
- monolithic, 1/523
- aggregated particle, 1/112
- nanobead-agglomerated, 1/112
- mixed-mode
- bimodal, 2/640, 2/657
- polymeric, 2/641ff
- silica-based, 2/657ff
- trimodal, 2/640, 2/669
- Mono Q, 1/368
- Mono S, 1/521
- Nova-Pak CN, 2/693

- Novosep A-1, 1/156f
- Novosep A-2, 1/63
- Nucleodex α -PM, β -PM, γ -PM, 2/694
- Nucleodex β -OH, 2/694
- Nucleodur HILIC, 2/699
- Nucelosil 50, 2/688
- Nucleosil 100, 2/688
- Nucleosil 10 Anion, 1/127
- Nucleosil 10 C8, 2/625
- Nucleosil 5 SA, 1/439
- Nucleosil 10 SA, 1/439
- Nucleosil CN, 2/693
- Nucleosil NH₂, 2/697
- Nucleosil OH, 2/691
- Obelisc N, 2/658, 2/700
- Obelisc R, 2/658, 2/700
- OmniPac PAX-100, 2/642
- OmniPac PAX-500, 2/554, 2/642, 2/750
- OmniPac PCX-100, 2/642
- OmniPac PCX-500, 2/642
- ORH 801, 2/541
- Partisil PAC, 2/710
- Partisil Si, 2/688
- phosphorylcholine-bonded phases, 2/699
- Pinnacle II CN, 2/693
- Pinnacle II NH₂, 2/697
- PLRP-S, 3/1324
- Polaris NH₂, 2/697
- poly(aspartic acid)-bonded phases, 2/697
- PolyCAT A, 2/698
- PolyHydroxyethyl A, 2/698
- Polyspher CHCA, 3/1213
- Polyspher IC AN-1, 1/55
- Polyspher OA-HY, 3/1039
- poly(succinimide)-bonded phases, 2/697
- PolySulfoethyl A, 2/698
- Poroshell HILIC, 2/688
- Primesep 100, 2/658
- Primesep 200, 2/658
- Primesep B, 2/658
- Primesep B2, 2/658
- Primesep D, 2/658
- Primesep SB, 2/837
- Prodigy, 2/688
- Prontosil, 2/688
- ProntoSIL CN, 2/693
- ProntoSIL Diol, 2/691
- ProPac IMAC-10, 1/493
- ProPac SAX-10, 1/354
- ProPac SCX-10, 1/507
- ProPac SCX-20, 1/521
- ProPac WAX-10, 1/354
- ProPac WCX-10, 1/507
- ProSwift SAX-1S, 1/360
- ProSwift SCX-1S, 1/524
- ProSwift WAX-1S, 1/360
- ProSwift WCX-1S, 1/524
- Protein A, 1/512
- PRP-1, 2/590
- PRP-X100, 1/40
- PRP-X110, 1/40
- PRP-X200, 1/403
- PRP-X300, 2/540
- Purospher Star RP-18, 3/1269
- Rezex ROA Organic Acid, 2/540
- Rezex RPM Monosaccharide, 1/289
- SAR-40-0.6, 1/214
- SeQuant ZIC-cHILIC, 2/700
- SeQuant ZIC-pHILIC, 2/715, 2/829
- SeQuant ZIC-HILIC, 2/659, 2/699, 2/702, 2/721, 3/1253, 31311
- Shim-pack IC-A1, 1/55
- Shim-pack IC-A3, 1/55
- Shim-pack IC-C1, 1/403
- Shim-pack IC-C3, 1/403
- Shim-pack IC-SA3, 1/63
- Shim-pack IE, 3/1201
- Shim-pack SCR-102H, 1/541
- Shodex IC YS-50, 1/434
- Shodex SI-52 4E
- – see Metrosep A Supp 5
- silica, underivatized, 2/687
- Spherisorb A5Y, 1/143
- Spherisorb CN, 2/693
- Spherisorb NH₂, 2/697
- Spherisorb Si, 2/688
- Stability, 1/10
- Star Ion A300 IC Anion, 1/43
- Star Ion A300 HC, 1/44
- sulfoalkylbetaine-bonded phases, 2/698
- Supelcosil Diol, 2/691
- Supelcosil LC-CN, 2/693
- Supelcosil LC-NH₂, 2/697
- Supersep Anion, 1/56
- Syncronis Amino, 2/697
- Syncronis Silica, 2/688
- Toyopearl HW 40 (S), 3/1246
- TSK Gel 620 SA, 2/740
- TSK Gel Amide-80, 2/696, 2/722
- TSK Gel IC Cation, 1/403
- TSK Gel IC Cation SW, 1/439
- TSK Gel IC-PW, 1/54
- TSK Gel IC-SW, 1/127
- Universal Anion, 1/56
- Universal Cation, 1/443
- Universal Cation HS, 1/443

- Vydac 300 IC 405, 1/220
- Vydac 302 IC, 1/127, 2/807, 3/1343
- Vydac C8 (208TP5451), 2/762
- Waters BEH HILIC, 2/712
- Waters C18 Radial-Pak, 2/602
- Wescan 269-001, 1/129
- Wescan 269-029, 1/203
- Wescan 269-031, 1/209, 3/1343
- XBridge Amide, 2/719, 2/722
- XBridge HILIC, 2/722
- YMC-Pack CN, 2/693
- YMC-Pack Diol-NP, 2/691
- YMC-Pack NH₂, 2/697
- YMC-Pack Pro C18, 2/834
- YMC-Triart Diol-HILIC, 722
- C8, 2/802
- Zorbax Eclipse XDB-C18, 2/863
- Zorbax-NH₂, 2/602, 2/697
- Zorbax Rx-SIL, 2/688
- Zorbax SB-CN, 2/693
- Zorbax SIL, 2/688
- SeQuant ZIC-cHILIC, 2/700
- SeQuant ZIC-pHILIC, 2/715, 2/829
- SeQuant ZIC-HILIC, 2/659, 2/699, 2/702, 2/721, 3/1253, 3/1311
- Sequestering agents, 3/1105
- Serine, 1/342, 2/565, 2/815, 2/837
- Serotonin, 2/613, 3/1219, 3/1357
- Serum analysis, 3/1336
- Shikimic acid, 1/243, 2/552, 2/662
- Shim-pack IC-A1, 1/55
- Shim-pack IC-A3, 1/55
- Shim-pack IC-C1, 1/403
- Shim-pack IC-C3, 1/403
- Shim-pack IC-SA3, 1/63
- Shim-pack IE, 3/1201
- Shim-pack SCR-102H, 1/541
- Shodex IC YS-50, 1/434
- Shodex SI-52 4E
 - see Metrosep A Supp 5
- Sialic acid, 1/326, 2/842
- Silica gel, 1/486
 - sols, aggregation of, 2/687
 - type B, 2/689
 - type C, 2/689
- Silicate
 - see Orthosilicate
- Silver, 2/555, 2/769
- Silvex
 - see 2-(2,4,5-Trichlorophenoxy)-propionic acid
- Sisomicin, 2/833, 3/1308
- Snake venom, 1/521
- Soap, 3/1177, 3/1191
- Sodium, 1/411, 1/420, 2/673, 2/984, 3/1076
- Sodium/ammonium concentration ratio, 1/421, 3/994f, 3/1044, 3/1085
 - column switching technique, 3/1085
- Soil analysis, 3/1048ff
- Solid phase extraction (SPE), 2/791, 3/1437, 3/1440
 - cartridges, 3/1437
 - InGuard, 3/1441f
 - OnGuard, 3/1438f
 - process, 3/1437
 - station, 3/1438
- Solubility, 2/534, 2/551f
 - product, 2/744
- Solvent analysis, 3/1128
- Solvophobicity, 2/550
- Sorbic acid, 1/84, 2/639, 2/664, 3/1224, 3/1255
- Sorbitol, 1/287, 1/329, 2/840, 3/1204, 3/1320
- Sorption energy, free, 1/33
- Speciation, 2/853, 3/1076
 - antimony, 2/864
 - arsenic, 2/858
 - chromium, 2/854
 - iodine, 2/861
 - mercury, 2/862
 - selenium, 2/864
- Spermidine, 1/424, 1/496
- Spermine, 1/424, 1/496
- Spherisorb A5Y, 1/143
- Spherisorb CN, 2/693
- Spherisorb NH₂, 2/697
- Spherisorb Si, 2/688
- Stachyose, 1/285, 3/1246, 3/1249
- Standard
 - addition, 2/958f
 - external, 2/957
 - internal, 2/956f
- Standard deviation, 2/945
 - method, 2/949
 - relative, 2/950
 - residual, 2/949
 - theoretical, 2/945
- Stannate, 2/855
- Star Ion A300 IC Anion, 1/43
- Star Ion A300 HC, 1/44
- Steam-jet aerosol collector, 3/1064
- Stearic acid, 1/825
- Stevia, 3/1268
- Steviol, 3/1267
- Steviolbioside, 3/1268
- Stokes radius, 1/352
- Streptidine, 3/1303

- Streptobiosamine, 3/1303
 Streptomycin, 2/830, 2/834, 3/1302
 Strontium, 1/413, 2/786
 – radio, 2/847
 Strychnine, 2/654
 Student factor, 2/946
 Succinic acid, 1/82, 1/231, 2/538, 2/846,
 3/1161
 Succinylcholine, 3/1287f
 Sucrose, 1/302, 2/542, 2/840, 2/910, 3/1204
 – mass spectrum, 2/911
 Sugar
 – alcohols, 1/287ff
 – substitutes, 3/1264
 Sulfadiazine, 2/655
 Sulfadimethoxine, 2/655
 Sulfamate, 1/253, 3/1151
 Sulfamerazine, 2/655
 Sulfamethazine, 2/655
 Sulfanilamide, 2/655
 Sulfanilic acid, 2/655
 Sulfate, 1/69, 1/100, 1/114, 3/979, 3/1181,
 3/1277, 3/1367, 3/1376
 Sulfathiazole, 2/655
 Sulfide, 1/95, 1/181, 2/748, 3/1403
 Sulfisoxazole, 2/655
 Sulfite, 1/71, 1/114, 1/184, 2/547, 3/1216,
 3/1320, 3/1419
 – purity determination, 1/185
 – stabilization, 1/184
 α -Sulfofatty acid methyl esters, 2/615, 3/1177
 Sulfonamides, 2/655
 Sulfonic acids, aliphatic, 2/620
 Sulfonium compounds, 2/632
 5-Sulfosalicylate, 2/572f, 2/647
 Sulfosuccinic acid esters, 2/624f
 Sulfur-containing amino acids, 2/573, 2/766
 Sulfur-containing antibiotics, 2/761, 3/1297
 Sulfur dioxide, 3/1057, 3/1147
 Sulfur-nitrogen compounds, 3/1107, 3/1110
 Supelcosil Diol, 2/691
 Supelcosil LC-CN, 2/693
 Supelcosil LC-NH₂, 2/697
 Supersep Anion, 1/56
 Supporting electrolyte, 1/151, 2/745f, 2/770
 Suppressor, 1/152ff, 1/450ff, 2/543f
 – capacity, 1/154, 1/160, 1/162, 1/168
 – capillary
 – for anion-exchange chromatography,
 1/173f
 – for cation-exchange chromatography,
 1/458
 – schematics, 1/174
 – column, 1/2, 1/152, 1/153ff, 2/543
 – regeneration, 1/154, 1/450
 – DS-PlusTM, 1/155
 – ERIS, 1/155
 – gel, 1/157
 – hollow fiber membrane
 – for anion-exchange chromatography,
 1/158ff
 – for cation-exchange chromatography,
 1/451
 – for ion-exclusion chromatography, 2/544
 – for ion-pair chromatography, 2/588
 – regeneration, 1/159, 1/451
 – schematics, 1/159
 – micromembrane
 – AutoRegen mode, 1/165
 – DCRTM mode, 1/165
 – for anion-exchange chromatography,
 1/161ff
 – for cation-exchange chromatography,
 1/451
 – for ion-exclusion chromatography, 2/545
 – for ion-pair chromatography, 2/589
 – pressurized bottle mode, 1/164
 – regeneration, 1/163, 1/452
 – schematics, 1/161
 – monolithic
 – for anion-exchange chromatography,
 1/172f
 – for cation-exchange chromatography,
 1/457f
 – schematic, 1/172
 – MSM-II, 1/154
 – MSM-HC, 1/154
 – MSM-LC, 1/154
 – reaction, 1/152, 1/169
 – self-regenerating
 – for anion-exchange chromatography,
 1/167ff
 – for cation-exchange chromatography,
 1/452f
 – operation modes, 1/170f, 1/454
 – salt converter, 1/455f
 – schematics, 1/169
 – system, 1/152
 – void volume, 1/154, 1/156, 1/161
 Suppressor (galvanic), 3/1168
 Surfactants, 3/1175ff
 – anionic, 3/1176f, 3/1187f
 – cationic, 3/1176f, 3/1187f
 Surrogate, 2/793, 3/1011
 Sweeteners, artificial, 1/312, 2/1264ff
 Syncronis Amino, 2/697

- Syncronis Silica, 2/688
 System suitability test, 2/943
- t**
 Tailing effect, 1/16, 1/92, 1/95, 1/217, 1/235, 1/285, 2/939
 Tandem LC, 2/827
 Tantalum, 2/607
 Tartaric acid, 1/82, 1/233, 1/404, 1/449, 2/538, 2/552, 2/673, 2/846, 3/1159, 3/1293
 Tartronic acid, 1/233f
 Taurine, 1/276, 1/342, 2/568, 2/815
 Terbium, 1/488
 Terephthalate, 2/645, 2/648
 Test
 – approximation, according to mandel, 2/952
 – *F*-, 2/952
 – outlier, 2/953
 – – Grubbs, 2/955
 – – Nalimov, 2/953
 – system suitability, 2/943
 – *t*-, 2/955
 Tetraacetyl-ethylenediamine (TAED), 1/260, 3/1181
 Tetraalkylammonium compounds, 2/599
 Tetraborate, 1/149
 Tetrabutylammonium, 1/452, 1/454, 1/505, 2/544, 2/589, 2/611, 2/627, 2/668, 3/1275
 Tetrabutylphosphonium, 2/668
 Tetradecylpyridinium, 2/632
 Tetradecyl sulfate, 2/620
 Tetraethylammonium, 1/505
 Tetraethylenepentamine, 1/497, 1/500
 Tetrafluoroborate, 1/186, 2/897, 3/1140ff, 3/1381ff, 3/1387, 3/1393
 Tetraheptylammonium, 1/505, 2/628
 Tetrahexylammonium, 1/505, 2/628
 Tetrametaphosphate, 1/224, 3/1191, 3/1235
 Tetramethylammonium, 1/451, 1/505, 2/589f, 2/595, 2/608, 2/611
N,N,N,N-Tetramethyl-1,4-butanediamine, 1/433
N,N,N,N-Tetramethylmethylenediamine, 1/427
N,N,N,N-Tetramethyl-1,6-hexanediamine, 1/433
 Tetramine, 1/497
 Tetrapentylammonium, 1/505, 2/627f, 2/668
 Tetraphenylborate, 3/1393
 Tetrapolyphosphate, 1/224, 1/226, 3/ 1191, 3/1235
 Tetrapropylammonium, 1/505, 2/591, 2/611, 2/627, 2/668
 Tetrasaccharides, 1/312, 1/329
- Tetrathiomolybdate, 2/608
 Tetrathionate, 2/603, 2/807
 Theobromine, 2/654
 Theophyllin, 1/414, 2/654
 Thiamine, 3/1322
 Thiamylal, 2/649f
 Thiocyanate, 1/45, 1/72, 1/75, 1/87, 1/114, 1/176, 1/219, 3/1242, 3/1380, 3/1401
 Thiofluor
 – see *N,N*-Dimethyl-2-mercaptoethylamine-hydrochloride
 Thioglycolic acid, 2/573, 2/598
 Thiomersal, 2/863
 Thiometalate, 2/607
 Thiomolybdate, 2/608
 Thiosalicylate, 2/1384
 Thiosulfate, 1/72, 1/75, 1/80, 1/87, 1/113ff, 1/151, 1/216, 1/219f, 2/583, 2/744, 2/808, 3/1397, 3/1418
 Thorium, 3/1484
 Threonine, 1/342, 2/565, 2/815, 2/837
 Thulium, 1/488, 1/494f
 Thymidine, 1/245
 – 5'-monophosphate, 1/248
 Thymine, 2/722
 Thymol, 1/637, 2/657
 Thymol blue, 2/657
 Tiludronate, 1/256, 1/258, 2/901, 3/1313
 Tiron
 – see 4,5-Dihydroxy-1,3-benzenedisulfonic acid-disodium salt
 Tissue plasminogen activator (tPA), 1/323, 1/519
 Tobramycin, 2/833, 3/1300
 Tolmetin, 2/652
 Tolterodine, 3/1293
 Toluene sulfonate, 2/618, 2/645, 3/1181
p-Toluenesulfonic acid, 2/541, 2/593, 2/717
 3-Tolidine, 1/506
 Topiramate, 1/253
 Tosylate, 2/897
 Toyopearl HW 40 (S), 3/1246
 Transesterification, 3/1412
 Transferrin, human serum, 1/323, 1/338, 1/366
 Transglucosidase, 1/315
 Transition metals, 1/402, 1/443ff, 1/468ff, 2/783, 2/850, 3/1102, 3/1122, 3/1216, 3/1332, 3/1347, 3/1374
 – limit of detection, 3/1101
 – separation, 1/402, 3/995, 3/1046, 3/1076, 3/1218
 – ultratrace analysis, 3/1076

- Transport number, 2/734
 Trap columns
 – anion (ATC), 3/1095
 – anion (ATC-HC), 3/1120
 – continuously regenerated (CR-TC), 3/981, 3/1098
 – MetPac CC-1, 3/1000
 Trehalose, 1/312, 3/1213, 3/1267
 Trialkanolamines, 2/762
 Triamine, 1/497
 Triangulation, 2/938ff
 Tribromide, 2/788ff
 Tribromoacetic acid, 1/114, 2/788, 2/879f, 3/1021
 Tributylmethylammonium, 1/505, 2/627
 Tricapryl ammonium, 3/1383
 Tricarballylate, 1/81, 1/234
 Trichloroacetic acid, 1/114, 2/794, 2/879, 3/1012, 3/1021f, 3/1247
 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T), 1/236
 2-(2,4,5-Trichlorophenoxy)propionic acid (Silvex), 1/236
 Triethanolamine, 1/416, 1/423, 1/425, 1/431, 1/501, 2/903, 3/1184
 Triethylamine, 1/423, 1/502, 2/609, 2/819
 Triethylene glycol, 2/561
 Triethylenetetramine, 1/497
 Triflate
 – see Trifluoromethanesulfonic acid
 Trifluoroacetate, 1/83, 1/416, 2/813, 3/1275
 Trifluoromethanesulfonic acid (triflate), 2/898, 3/1378, 3/1381
 Trihexyltetradecylphosphonium, 3/1386
 Triiodide, 2/792, 2/993, 3/1009, 3/1012, 3/1019f
 Trimesate, 2/645, 2/800
 Trimetaphosphate, 1/224, 3/1191, 3/1235, 3/1450
 Trimethoprim, 2/655
 Trimethylamine, 1/416, 1/428, 1/501, 3/1076, 3/1137
 Trimethylantimony, 2/864
 Trimipramine, 2/663, 2/667
 Trioxodinitrate, 1/179
 Triphenylarsonium compound, 2/634
 Triphenyl-mono(β -jonylidene-ethylene)-phosphonium chloride, 2/634
 Triphenylphosphonium compound, 2/634
 Tripolyphosphate, 1/223, 3/1178, 3/1189, 3/1235
 Tripolidine, 2/852
 Tris, 2/678
 Trisaccharides, 1/312
 Tris(2-carboxyethyl)phosphine, 3/1353
 Tris(2-chloroethyl)amine (HN3), 3/903
 N-[Tris(hydroxymethyl)methyl]-2-aminomethanesulfonic acid (TES), 2/720
 N-[Tris(hydroxymethyl)methyl]-2-aminopropanesulfonic acid (TAPS), 2/720
 Trithiomolybdate, 2/608
 Tromethamine, 2/673, 3/1282
 Tropaeolin O, 2/657
 Trypsin inhibitor, 1/354, 1/364
 Tryptophane, 1/349, 2/573, 2/838
 – protection, 2/573
 TSK Gel 620 SA, 2/740
 TSK Gel Amide-80, 2/696, 2/722
 TSK Gel IC Cation, 1/403
 TSK Gel IC Cation SW, 1/439
 TSK Gel IC-PW, 1/54
 TSK Gel IC-SW, 1/127
 Tungstate, 1/81, 1/83, 1/86, 1/111, 2/608
 Turanose, 1/310f
 Turbidimetry, 1/8
 Two-phase titration, 2/630, 3/1176
 Tyramine, 3/1218
 Tyrosine, 1/187, 1/341f, 2/565, 2/837
- u**
- Ultracentrifugation, 2/573
 Ultrafiltration, 2/573, 3/1342, 3/1428
 Universal Anion, 1/56
 Universal Cation, 1/443
 Universal Cation HS, 1/443
 Uracil, 2/722
 Uranine, 2/850
 Uranium, 1/484, 1/484ff, 2/787
 Uranyl cation, 1/485, 2/803
 Uridine, 1/245, 2/723
 – 5'-monophosphate, 1/247
 Urine analysis, 3/1336
 UV photolysis, oxidative, 3/1217, 3/1388, 3/1447
- v**
- Valency, 1/10, 1/69, 1/176, 1/193, 1/238, 1/371, 3/1405
 Valeric acid, 1/83, 1/241, 2/537, 2/636, 2/890, 3/1039
 Validation, 2/829, 2/943
 Valine, 1/342, 2/565, 2/573
 Vanadate, 1/483, 2/798
 Vanadium, 1/482f, 2/607
 van Deemter
 – curves, 1/25f, 1/176
 – equation, 1/21, 2/690
 – theory, 1/21ff

- van't Hoff plot, 1/34, 1/494
 - Variance
 - homogeneity, 2/947, 2/953
 - inhomogeneity, 2/947, 2/953
 - 4-Vinylbenzo-18-crown-6, 1/132
 - Vinylsulfonic acid, 3/1161
 - Vitamins, water-soluble, 3/1322
 - V-mask, 2/971
 - Voltammetry, 2/744
 - basics, 2/744
 - cyclic, 2/750, 3/1163
 - hydrodynamic, 2/745
 - pulsed, 2/745
 - Voltammogram, 2/745f, 2/750
 - cyclo
 - of formaldehyde, 2/758
 - of glucose, 2/750
 - of propionaldehyde, 2/757
 - Volume
 - breakthrough, 3/1071f
 - dead, 1/148, 1/156, 3/1445
 - exclusion, 2/533
 - totally permeated, 2/533
 - Vydac 300 IC 405, 1/220
 - Vydac 302 IC, 1/127, 2/807, 3/1343
 - Vydac C8 (208TP5451), 2/762
-
- W**
 - Wafer extract, 3/1124
 - Warfarin, 2/826
 - Water analysis
 - borated, 3/1094ff
 - conditioned water, 3/1085
 - conventional, 3/977
 - cooling water, 1/466, 3/1094
 - drinking water, 3/978ff
 - estuarine water, 3/1046
 - feed water, 3/1076, 3/1079
 - formation water, 3/1401
 - ground water, 3/985
 - high-purity, 3/1069ff
 - ice, 3/983
 - landfill leachate, 3/1038
 - mineral water, 3/1014
 - natural water, 3/988
 - pharmaceutical process, 3/1318
 - rain water, 3/983, 3/985
 - seawater, 3/1041
 - seepage water, 3/1038
 - snow, 3/862, 3/983
 - surface water, 3/988
 - swimming pool water, 3/985, 3/988, 3/1022
 - ultrapure water, 3/1115
-
- X**
 - Xanthine, 2/654
 - XBridge Amide, 2/719, 2/722
 - XBridge HILIC, 2/722
 - Xylene sulfonate, 2/619, 3/1183f
 - Xylitol, 1/287, 3/1206
 - Xylose, 1/293ff, 1/299, 1/302, 1/308, 1/915, 3/1260
-
- Y**
 - YMC-Pack CN, 2/693
 - YMC-Pack Diol-NP, 2/691
 - YMC-Pack NH₂, 2/697
 - YMC-Pack Pro C18, 2/834
 - YMC-Triart Diol-HILIC, 2/722
 - Ytterbium, 1/488f
 - Yttrium, 1/493
-
- Z**
 - Zeolith A, 3/1178
 - Zinc, 1/444, 1/473, 1/489, 1/496, 2/784f, 3/997, 3/1077
 - Zirconium, 1/485
 - ZnEDTA, 1/436, 1/476f
 - ZnEDTA-PAR system, 1/476, 2/783
 - Zoledronic acid [(1-hydroxy-2-imidazol-1-yl phosphonoethyl) phosphonic acid, 1/256, 3/1314
 - Zorbax Eclipse XDB-C18, 2/863
 - Zorbax-NH₂, 2/602, 2/697
 - Zorbax Rx-SIL, 2/688
 - Zorbax SB-CN, 2/693
 - Zorbax SIL, 2/688
 - Zwitterionic bonded phases, 2/686, 2/698ff
 - Zwitterionic form, 2/562
 - Zwitter ion, residual dissociation, 1/148