

**CUMULATIVE
AUTHOR AND SUBJECT INDEXES
VOLUMES 131-140**

Supplied free of charge to the 1977 subscribers of the Journal of Chromatography

JOURNAL OF

CHROMATOGRAPHY

INTERNATIONAL JOURNAL ON CHROMATOGRAPHY, ELECTROPHORESIS AND RELATED METHODS

EDITOR, Michael Lederer (Rome)

ASSOCIATE EDITOR, K. Macek (Prague)

EDITORIAL BOARD

W. A. Aue (Halifax)
V. G. Berezkin (Moscow)
A. Bevenue (Honolulu, Hawaii)
P. Boulanger (Lille)
A. A. Boulton (Saskatoon)
G. P. Cartoni (Rome)
K. V. Chmutov (Moscow)
G. Duyckaerts (Liège)
L. Fishbein (Jefferson, Ark.)
A. Frigerio (Milan)
C. W. Gehrke (Columbia, Mo.)
E. Gil-Av (Rehovot)
G. Guiochon (Palaiseau)
I. M. Hais (Hradec Králové)
E. Heftmann (Berkeley, Calif.)
S. Hjertén (Uppsala)
E. C. Horning (Houston, Texas)
C. Horváth (New Haven, Conn.)
J. F. K. Huber (Vienna)
A. T. James (Sharnbrook)
J. Janák (Brno)
K. A. Kraus (Oak Ridge, Tenn.)
E. Lederer (Gif-sur-Yvette)
A. Liberti (Rome)
H. M. McNair (Blacksburg, Va.)
Y. Marcus (Jerusalem)
G. B. Marini-Bettolo (Rome)
R. Neheř (Basel)
G. Nickless (Bristol)
J. Novák (Brno)
N. A. Parris (Wilmington, Del.)
O. Samuelson (Göteborg)
G.-M. Schwab (Munich)
G. Semenza (Zürich)
L. R. Snyder (Tarrytown, N.Y.)
A. Zlatkis (Houston, Texas)

EDITORS, BIBLIOGRAPHY SECTION

K. Macek (Prague), J. Janák (Brno), Z. Deyl (Prague)

EDITOR, BOOK REVIEW SECTION

R. Amos (Abingdon)

EDITOR, NEWS SECTION

J. F. K. Huber (Vienna)

COORD. EDITOR, DATA SECTION

J. Gasparič (Hradec Králové)

ELSEVIER SCIENTIFIC PUBLISHING COMPANY
AMSTERDAM

PUBLICATION SCHEDULE FOR 1977

Journal of Chromatography (incorporating *Biomedical Applications* and *Chromatographic Reviews*)
In the course of 1977, also the cumulative indexes for Vols. 121–130 and 131–140 will appear.

MONTH	J	F	M	A	M	J	J	A	S	O	N	D
<i>Journal of Chromatography</i>	130 131	132/1 132/2 132/3	133/1 133/2	134/1 134/2	135/1 135/2	136/1 136/2 136/3	137/1 137/2	138/1 138/2	139/1 139/2	140/1 140/2 140/3	142 144/1	144/2 144/3
<i>Biomedical Applications</i>	143/1		143/2		143/3		143/4		143/5		143/6	
<i>Chromatographic Reviews</i>				141/1				141/2				141/3

Scope. The *Journal of Chromatography* publishes papers on all aspects of chromatography, electrophoresis and related methods. Contributions consist mainly of research papers dealing with chromatographic theory, instrumental development and their applications. The section *Biomedical Applications*, which is under separate editorship, deals with the following aspects: developments in and applications of chromatographic and electrophoretic techniques related to clinical diagnosis (including the publication of normal values); screening and profiling procedures with special reference to metabolic disorders; results from basic medical research with direct consequences in clinical practice; combinations of chromatographic and electrophoretic methods with other physico-chemical techniques such as mass spectrometry. In *Chromatographic Reviews*, reviews on all aspects of chromatography, electrophoresis and related methods are published.

Submission of Papers. Papers in English, French and German may be submitted, if possible in three copies. Manuscripts should be submitted to:

The Editor of *Journal of Chromatography*, P.O. Box 681, Amsterdam, The Netherlands

or to:

The Editor of *Journal of Chromatography, Biomedical Applications*, P.O. Box 681, Amsterdam, The Netherlands.

Reviews are invited or proposed by letter to the Editors and will appear in *Chromatographic Reviews* or *Biomedical Applications*. An outline of the proposed review should first be forwarded to the Editors for preliminary discussion prior to preparation.

Subscription Orders. Subscription orders should be sent to: Elsevier Scientific Publishing Company, P.O. Box 211, Amsterdam, The Netherlands. The *Journal of Chromatography, Biomedical Applications* can be subscribed to separately.

Publication. The *Journal of Chromatography* (including *Biomedical Applications* and *Chromatographic Reviews*) has 15 volumes in 1977. The subscription price for 1977 (Vols. 130–144) is Dfl. 1650.00 plus Dfl. 210.00 (postage) (total ca. US\$ 744.00). The subscription price for the *Biomedical Applications* section only (Vol. 143) is Dfl. 110.00 plus Dfl. 14.00 (postage) (total ca. US\$ 49.60). Journals are automatically sent by air mail to the U.S.A. and Canada at no extra costs, and to Japan, Australia and New Zealand with a small additional postal charge. Back volumes of the *Journal of Chromatography* (Vols. 1 through 129) are available at Dfl. 100.00 (plus postage). Claims for issues not received should be made within three months of publication of the issue. If not, they cannot be honoured free of charge.

For further information, see page 3 of cover.

© ELSEVIER SCIENTIFIC PUBLISHING COMPANY — 1977

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher, Elsevier Scientific Publishing Company, P.O. Box 330, Amsterdam, The Netherlands.

Submission of an article for publication implies the transfer of the copyright from the author to the publisher and is also understood to imply that the article is not being considered for publication elsewhere.

Printed in The Netherlands

JOURNAL OF CHROMATOGRAPHY

Cumulative Author and Subject Indexes

VOLUMES 131-140

JOURNAL *of* CHROMATOGRAPHY

INTERNATIONAL JOURNAL ON CHROMATOGRAPHY,
ELECTROPHORESIS AND RELATED METHODS

Cumulative Author and Subject Indexes Volumes 131-140 (1977)

EDITOR

MICHAEL LEDERER (Rome)

ASSOCIATE EDITOR

K. MACEK (Prague)

EDITORIAL BOARD

W. A. Aue (Halifax), V. G. Berezkin (Moscow), A. Bevenue (Honolulu, Hawaii), P. Boulanger (Lille), A. A. Boulton (Saskatoon), G. P. Cartoni (Rome), K. V. Chmutov (Moscow), G. Duyckaerts (Liège), L. Fishbein (Jefferson, Ark.), A. Frigerio (Milan), C. W. Gehrke (Columbia, Mo.), E. Gil-Av (Rehovot), G. Guiochon (Palaiseau), I. M. Hais (Hradec Králové), E. Heftmann (Berkeley, Calif.), S. Hjertén (Uppsala), E. C. Horning (Houston, Texas), C. Horváth (New Haven, Conn.), J. F. K. Huber (Vienna), A. T. James (Sharnbrook), J. Janák (Brno), K. A. Kraus (Oak Ridge, Tenn.), E. Lederer (Gif-sur-Yvette), A. Liberti (Rome), H. M. McNair (Blacksburg, Va.), Y. Marcus (Jerusalem), G. B. Marini-Bettolo (Rome), R. Neher (Basel), G. Nickless (Bristol), J. Novák (Brno), N. A. Parris (Wilmington, Del.), O. Samuelson (Göteborg), G.-M. Schwab (Munich), G. Semenza (Zürich), L. R. Snyder (Tarrytown, N.Y.), A. Zlatkis (Houston, Texas)

EDITORS, BIBLIOGRAPHY SECTION

K. Macek (Prague), J. Janák (Brno), Z. Deyl (Prague)

EDITOR, BOOK REVIEW SECTION

R. Amos (Abingdon)

EDITOR, NEWS SECTION

J. F. K. Huber (Vienna)

COORDINATING EDITOR, DATA SECTION

J. Gasparič (Hradec Králové)

1977

Electronic data processing:
Dipl.-Kfm. Karlheinz Wenzel KG
and
ADV-Service Wilfried Meyer GmbH,
Hanau, G.F.R.

© ELSEVIER SCIENTIFIC PUBLISHING COMPANY — 1977

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher, Elsevier Scientific Publishing Company, P.O. Box 330, Amsterdam, The Netherlands.

Submission of an article for publication implies the transfer of the copyright from the author to the publisher and is also understood to imply that the article is not being considered for publication elsewhere.

Printed in The Netherlands

AUTHOR INDEX

VOLUMES 131-140

The volume number is placed in parentheses before the page number

A

- Aaviksaar, A., see Osa, A. (135) 196
- Abbott, S.R., see Johnson, E. (134) 107
- Abe, M.
Synthetic inorganic ion-exchange materials. XV. Chromatographic separation of alkali metal ions using phosphoantimonic(V) acid as a cation exchanger (134) 507
- Abraham, C.V. and Gresham, D.
Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332
- Abu-Shumays, A., see Johnson, E. (134) 107
- Achari, R., see Beckett, A.H. (135) 200
- Adachi, S., see Toba, T. (135) 411
- Adams, R.F., see Slavin, W. (134) 121
- Adlakha, R.C., see Villanueva, V.R. (139) 381
- Adriaens, P., Meesschaert, B., Wuyts, W., Vanderhaeghe, H. and Eyssen, H.
Separation of ninhydrin-positive compounds on a single-column amino acid analyzer using lithium buffers (140) 103
- Adriaens, P., see Meesschaert, B. (136) 162
- Aitzetmüller, K.
HPLC analysis of partial glycerides and other technical lipid mixtures (139) 61
- Albert, D.M., see Darling, T. (131) 383
- Albert, J., see Darling, T. (131) 383
- Alberti, G., Bernasconi, M.G., Costantino, U. and Gill, J.S.
Crystalline insoluble acid salts of tetravalent metals. XXVII. Ion exchange of trivalent cations on ionic forms of crystalline zirconium phosphate with large interlayer distances (132) 477
- Albro, P.W., Haseman, J.K., Clemmer, T.A. and Corbett, B.J.
Identification of the individual polychlorinated biphenyls in a mixture by GLC (136) 147
- Alessi, P., Kikic, I. and Papo, A.
Polarity of phthalate esters in GC (131) 31
- Alessi, P., Kikic, I., Papo, A. and Torriano, G.
Evaluation of solvent properties. A comparison of esters of 2-ethylhexanol (133) 190
- Alexander, F., see Uyttendaele, K. (132) 261
- Allalouf, D., see Wasserman, L. (136) 342
- Allen, C.F., see Rice, L.I. (137) 397
- Alumot, E., see Harduf, Z. (139) 215
- Amico, V., Oriente, G. and Tringali, C.
Quantitative analysis of protein and non-protein amino acids by GLC (131) 233
- Amin, M. and Jakobs, U.
TLC of active compounds from ointments and suppositories followed by direct quantitative analysis by remission (in German) (131) 391
- Anbar, M., see Heck, H.d'A. (133) 281
- Andary, C., Enjalbert, F., Privat, G. and Mandrou, B.
Assay for amatoxins in *Amanita phalloides* Fries (Basidiomycetes) with direct spectrometric measurements of chromatograms (in French) (132) 525
- Anderson, M.M., see Maile, R.J. Jr. (132) 366
- Anderson, R., Annette, D. and Jackson, N.
Ion-exchange chromatographic study of amino acid degradation during hydrolysis of avian protein (135) 447
- Angelo, H.R. and Christensen, J.M.
GC method for the determination of dextropropoxyphene and nordextropropoxyphene in human plasma, serum and urine (140) 280
- Annette, D., see Anderson, R. (135) 447
- Ansari, A.A. and Mage, R.G.
Molecular-weight estimation of proteins using Sepharose CL-6B in guanidine hydrochloride (140) 98
- Appelqvist, L.-Å., see Nair, B.M. (133) 203
- Arendes, J., Zahn, R.K. and Müller, W.E.G.
Separation of naturally occurring adenine nucleosides and nucleotides by anion-exchange chromatography (140) 118
- Arpino, P., Moreau, J.-P., Oruezabal, C. and Flieder, F.
GC-MS analysis of tannin hydrolysates from the ink of ancient manuscripts (XIth to XVIIth century) (134) 433
- Arpino, P., Vidal-Madjar, C., Guiochon, G. and Békássy, S.
Production of citral from geraniol. II. Capillary GC-MS investigation of two different oxidation reactions using a graphite porous-layer open-tubular column with a large coating ratio of polar liquid phase (138) 173
- Arrendale, R.F., see Severson, R.F. (139) 269

- Arukaevu, H., see Osa, A. (135) 196
- Arustamova, L.G., Berezkin, V.G.,
Rustamov, M.I. and Sultanov, N.T.
Surface-layer sorbents for group analysis of
aromatic hydrocarbons in petroleum
distillates (140) 319
- Arx, E. von, see Von Arx, E. (134) 529
- Ashes, J.R. and Haken, J.K.
GC of homologous esters. X. Data
prediction properties of a Rohrschneider-
type scheme (135) 61
- Ashes, J.R. and Haken, J.K.
GC of homologous esters. XI. Use of ester
solutes in a Rohrschneider-type scheme for
data prediction (135) 67
- Ashworth, A.J. and Hooker, D.M.
Mixed solvents in GLC. Activity coefficients
for hexane in squalane and dinonyl
phthalate mixtures at 303 °K (131) 399
- Assandri, A. and Moro, L.
Protein binding of a series of rifamycins to
bovine serum albumin as measured by the
"two-phase partition" technique (135) 37
- Assandri, A. and Semenza, G.
Protein binding of rifampicin to bovine
serum albumin as measured by gel
filtration (135) 25
- Aston, J.W.
Computer processing of fatty acid analysis
data (131) 121
- Aszalos, A., see Issaq, H.J. (133) 291
- Aue, W.A., see Hill, H.H. Jr. (140) 1
- Auer, M., see Kolb, B. (134) 65
- Augustyniak, J., see Goździcka-Józefiak, A.
(131) 91
- Aukaty, M.F., Bubenschikova, S.N.,
Kagrammanova, V.K. and Baratova, L.A.
Use of an amino-silica column for the
HPLC analysis of synthetic
oligodeoxynucleotides (137) 351
- Avigad, G.
Dansyl hydrazine as a fluorimetric reagent
for TLC analysis for reducing sugars
(139) 343
- Axelsen, K.S. and Vogelsang, S.H.
HPLC analysis of gramicidin, a polypeptide
antibiotic (140) 174
- B**
- Baaske, D.M., Keiser, J.E. and Smith, R.V.
GC determination of apomorphine in
plasma (140) 57
- Bach, K. and Haas, H.J.
TLC separation of racemates of some
amino acids (in German) (136) 186
- Bachman, A. and Vestergaard, P.
Electronic system for chart recorder
absorbance output of the multicuvette
system for LC (132) 335
- Bailey, E., Fenoughty, M. and Richardson, L.
Automated high-resolution GC analysis of
psychotropic drugs in biological fluids
using open-tubular glass capillary columns.
I. Determination of nomifensine in human
plasma (131) 347
- Bailey, G., Kootstra, A., Stockwell, P. and
Gillett, D.
Three-buffer single column analyses on
two-buffer amino acid analyzers (133) 386
- Balderstone, P. and Dyke, S.F.
Detection and quantitative analysis of
sanguinarine in edible oils (132) 359
- Baldesten, A., see Sollenberg, J. (132) 469
- Ballschmitter, K., see Heizmann, P. (137) 153
- Ballschmitter, K., see Lohmüller, M. (137) 165
- Baloch, A.K., Buckle, K.A. and Edwards, R.A.
Separation of carrot carotenoids on Hyflo
Super-Cel-magnesium oxide-calcium sulfate
thin layers (139) 149
- Balzarini, L., see Righetti, P.G. (134) 279
- Baratova, L.A., see Aukaty, M.F. (137) 351
- Barchet, R., see Harzer, K. (132) 83
- Bardou, L.G., see Kerebel, A. (140) 229
- Baron, R.L., see Freudenthal, R.I. (134) 207
- Barr, E.W., see Issaq, H.J. (131) 265, (132) 115,
(132) 121, (133) 291
- Barth, H.G. and Conner, A.Z.
Determination of doxorubicin
hydrochloride in pharmaceutical
preparations using HPLC (131) 375
- Barthelemy, J.-P., see Deleu, R. (134) 483
- Bartle, K.D., Elstub, J., Novotny, M. and
Robinson, R.J.
Use of a modified Tenax GC column
packing for the direct GC analysis of
phenols in water at the ppm level (135) 351
- Basedow, A.M., see Haller, W. (132) 387
- Bašnák, I., see Štrop, P. (138) 47
- Bassham, J.A., see Platt, S.G. (133) 396
- Baumgarten, E., Weinstrauch, F. and
Höffkes, H.
Adsorption isotherms of hydrocarbons on
 γ -alumina (138) 347
- Baxter, J.S., see Vogt, C.R. (136) 221
- Bazán, N.G., see Rodríguez de Turco, E.B.
(137) 194
- Bechgaard, E. and Lund, J.
Determination of (+)-3R),(4S)-3-(4-
methoxyphenoxy)methyl-1-methyl-4-
phenylpiperidine hydrochloride (FG 4963)
in biological fluids using competition for
adsorption to glass (133) 147
- Beck, O., Wiesel, F.-A. and Sedvall, G.
Mass fragmentographic determination of 5-
hydroxytryptamine and 5-hydroxyindole-3-
acetic acid in brain tissue using deuterated
internal standards (134) 407
- Bečka, J. and Feltl, L.
GC determination of trace amounts of

- hydrocarbons in the atmosphere of experimental biological containers (131) 179
- Becker, H., Wilking, G. and Hostettmann, K.
Separation of isomeric glycoflavones by HPLC (136) 174
- Beckett, A.H. and Achari, R.
Direct GLC analysis of N-hydroxyamphetamine, a metabolite of amphetamine (135) 200
- Békássy, S., see Arpino, P. (138) 173
- Belcheva, R.P., see Pankova, M.C. (137) 198
- Bell, E.A., see Charlwood, B.V. (135) 377
- Benet, L.Z., see Lin, E.T. (140) 275
- Benetello, P., see Furlan, M. (140) 270
- Benjamin, T.V., see Hardman, R. (131) 468
- Benoit, F., see Williams, D.T. (136) 423
- Benson, G.A. and Spillane, W.J.
GC determination of cyclic amines, ketones and alcohols, possible metabolites of sweet sulphamates (136) 318
- Bente, H.B., see Burgett, C.A. (134) 57
- Benvenuto, J.A., Lu, K. and Loo, T.L.
HPLC analysis of ftorafur and its metabolites in biological fluids (134) 219
- Ber, A., see Wasserman, L. (136) 342
- Berek, D.
Simple pulse damper for LC (132) 128
- Berezkin, V.G., see Arustamova, L.G. (140) 319
- Berg, J.H.M. van den, see Van den Berg, J.H.M. (132) 421, (138) 431
- Berg, R.G. and McNair, H.M.
Preparative HPLC separation of high-molecular-weight isomers (131) 185
- Berkane, K., Caissie, G.E. and Mallet, V.N.
Use of Amberlite XAD-2 resin for the quantitative recovery of fenitrothion from water: A preservation technique (139) 386
- Bernasconi, M.G., see Alberti, G. (132) 477
- Berry, D.J., see Flanagan, R.J. (131) 131
- Berthou, F.L., see Kerebel, A. (140) 229
- Bettencourt, A., Lhoest, G., Roberfroid, M. and Mercier, M.
GC and mass fragmentographic assays of carcinogenic polycyclic hydrocarbon epoxide hydratase activity (134) 323
- Bevill, R.F., see Sharma, J.P. (134) 441
- Beyerman, H.C., see Olieman, C. (133) 382
- Bhardwaj, T.R., see Singh, H. (137) 202
- Bhat, H.B., see Burce, G.L. (137) 323
- Bhattacharjee, A. and Bhaumik, A.
Analysis of low-boiling isomers of phenols by GC (136) 328
- Bhaumik, A., see Bhattacharjee, A. (136) 328
- Bhutani, K.K., see Singh, H. (137) 202
- Bielorai, R., see Harduf, Z. (139) 215
- Bier, M., Cuddeback, R.M. and Kopwille, A.
Preparative plasma protein fractionation by isotachopheresis in Sephadex columns (132) 437
- Binder, R.L., see Jain, R.S. (136) 141, (139) 283
- Bishara, R.H., see Jakovljevic, I.M. (134) 238
- Bishara, R.H., see Souter, R.W. (140) 245
- Bjornsson, T.D., Blaschke, T.F. and Meffin, P.J.
HPLC analysis of drugs in biological fluids.
IV. Determination of clofibrinic acid (137) 145
- Blagrove, R.J. and Frenkel, M.J.
Determination of protein molecular weights in denaturing solvents using glyceryl-CPG (132) 399
- Blanchet, G., Picard, J. and Morelis, P.
Synthesis of an N-methylacridinium-Sepharose: its use in the purification of cholinesterases (in French) (135) 477
- Blaschke, T.F., see Bjornsson, T.D. (137) 145
- Blasius, E. and Klemm, G.
High-voltage paper ionophoresis in temperature gradients and non-aqueous solutions (in German) (135) 323
- Blaton, V., see Uyttendaele, K. (132) 261
- Bleha, M., see Novák, J. (139) 141
- Bloch, J.-C. and Garel, J.-P.
Influence of modified nucleosides in *E. coli* transfer RNA on chromatographic mobilities of transfer RNA (137) 93
- Blomberg, L.
Measurement of the average thickness of the film of stationary phase in dynamically coated glass capillary columns for GC (138) 7
- Bloomer, K., see Sherma, J. (135) 235
- Bluzin, W. and Richter, W.J.
Parallel flame ionization detection-total ion current recording in capillary GC-chemical ionization MS (132) 249
- Blüthmann, H.
Chromatography of histones on hydroxyapatite columns (137) 222
- Boček, P., Miedzak, I., Deml, M. and Janák, J.
Use of complex formation equilibria in the analytical isotachopheresis of strong electrolyte ions. Separation of halides and sulphates (137) 83
- Boehme, W. and Engelhardt, H.
Moisture control system for non-polar eluents in HPLC. I. Reproducible retentions on alumina (133) 67
- Boinon, B., see Le Parlouer, P. (133) 253
- Bollet, C., see Chevalier, G. (138) 193
- Bombardelli, E., Bonati, A., Gabetta, B., Martinelli, E.M. and Mustich, G.
Identification of anthocyanins by GLC and MS (139) 111
- Bonastre, J., see Grenier-Loustalot, M.F. (138) 63
- Bonati, A., see Bombardelli, E. (139) 111
- Bonner, W.A., see Flores, J.J. (132) 152
- Bonner, W.A., see Van Dort, M.A. (133) 210
- Boom, J.H. van, see Van Boom, J.H. (131) 169
- Borák, J. and Smrž, M.
LC of nucleic acid components and their analogues on hydroxyethyl methacrylate gels (133) 127
- Bories, G., see Wal, J.M. (136) 165
- Born, H.-J., see Specht, S. (135) 273
- Borovanský, J., Hach, P. and Duchoň, J.
Chromatographic separation of melanosomes (134) 230

- Borque, L., see Campos, A. (140) 219
- Bounine, J.-P., see Thomas, J.-P. (139) 21
- Boven, M. van, see Van Boven, M. (134) 415
- Bowers, W. and Hawkes, S.
Obstruction factors are not always flow dependent (134) 166
- Bowman, R.L., see Ito, Y. (136) 189
- Brabander, H.F. de, see De Brabander, H.F. (138) 131
- Brater, D.C., see Lin, E.T. (140) 275
- Braun, W.H.
Rapid method for the simultaneous determination of 1,4-dioxan and its major metabolite, β -hydroxyethoxyacetic acid, concentrations in plasma and urine (133) 263
- Breimer, D.D., see Vermeulen, N.P.E. (137) 333
- Brenna, O., see Righetti, P.G. (134) 279, (137) 171
- Breter, H.-J., Seibert, G. and Zahn, R.K.
Single-step separation of major and rare ribonucleosides and deoxyribonucleosides by cation-exchange HPLC for the determination of the purity of nucleic acid preparation (140) 251
- Breter, H.-J. and Zahn, R.K.
Quantitative determination of metabolites of 6-mercaptopurine in biological materials. II. Advantages of a variable-wavelength HPLC spectrophotometric detector for the determination of 6-thiopurines (137) 61
- Brinkman, H.W., see Telling, G.M. (137) 405
- Brinkman, U.A.T., see De Jong, G.J. (135) 249
- Brinkman, U.A.T., see De Vries, G. (134) 235
- Bristow, P.A., Brittain, P.N., Riley, C.M. and Williamson, B.F.
Upward slurry packing of LC columns (131) 57
- Brittain, P.N., see Bristow, P.A. (131) 57
- Břízová, E., Popl, M. and Čoupek, J.
Use of the sorbent Spheron SE in the analysis of trace amounts of impurities in water (139) 15
- Brockman, R.W., see Rose, L.M. (133) 335
- Brodie, R.R., see Woodhouse, R.N. (137) 218
- Brooks, C.J.W., see Edmonds, C.G. (133) 372
- Brooks, M.A., Hackman, M.R., Weinfeld, R.E. and Macasieb, T.
Determination of clorazepate and its major metabolites in blood and urine by electron capture GLC (135) 123
- Brown, J.K., see Byrne, J.A. (137) 489
- Brown, N.D. and Sleeman, H.K.
Determination of N,N'-trimethylene-bis(pyridinium-4-aldoxime) dibromide by ion-pair HPLC (138) 449
- Brown, N.D. and Sleeman, H.K.
An ultramicro HPLC method for assaying ion-pair species of benactyzine (140) 300
- Brown, R. and Nickla, H.
Simultaneous separation of pteridines and omochrome precursors by PC (133) 423
- Brown, R.K., Caspers, M.L., Lull, J.M., Vinogradov, S.N., Felgenhauer, K. and Nekić, M.
Carrier ampholyte distribution in isoelectric focusing (131) 223
- Brun, A., see Thomas, J.-P. (139) 21
- Bruschi, E., see Castello, G. (139) 195
- Bryce, T.A. and Burrows, J.L.
GLC determination of 1,3-dihydro-3-phenylspiroisobenzofuran-1,4-piperidinel, HP 505, in biological fluids using a nitrogen-specific detector (136) 401
- Bubenschikova, S.N., see Aukaty, M.F. (137) 351
- Buchanan, J.H.
Use of a programmable pocket calculator in processing amino acid analysis data (137) 475
- Buchele, A., see Winkler, E. (138) 151
- Buck, C.A., see Jain, R.S. (136) 141, (139) 283
- Buckle, K.A., see Baloch, A.K. (139) 149
- Budde, W.L. and Eichelberger, J.W.
Mass spectrometer as a substance-selective detector in chromatography (134) 147
- Budna, K.W., see Nachtmann, F. (136) 279
- Buffa, M., see Lombard, A. (134) 242
- Bührens, K.-G. and Preetz, W.
Separation of halohydroborates of the type $B_{10}H_{10-n}X_n^{2-}$ by high-voltage ionophoresis (in German) (139) 291
- Bundgaard, H. and Larsen, C.
Polymerization of penicillins. IV. Separation, isolation and characterization of ampicillin polymers formed in aqueous solution (132) 51
- Burce, G.L., Bhat, H.B. and Sokolowski, T.
Quantitative determination of naltrexone and naltrexone prodrugs by electron-capture GLC (137) 323
- Burgett, C.A., Smith, D.H. and Bente, H.B.
Nitrogen-phosphorus detector and its applications in GC (134) 57
- Burkett, L.L., see Wallace, J.E. (138) 111
- Burkinshaw, P.M., Morgan, E.D. and Poole, C.F.
Detection of alcohols at the femtogram level as pentafluorophenyl dimethylsilyl ethers (132) 548
- Burns, D.T. and Collin, E.J.
Rapid determination of certain alkaloids, other than nicotine, in tobacco (133) 378
- Burns, D.T., see Hayes, W.P. (139) 395
- Burrows, G.D., see Norman, T.R. (134) 524
- Burrows, J.L., see Bryce, T.A. (136) 401
- Burtseva, T.I., Glebko, L.I. and Ovodov, Y.S.
Direct spectrophotometric TLC for determining malondialdehyde and β -formyl pyruvate produced by the periodate oxidation of some deoxy sugars (131) 464
- Buryan, P. and Macák, J.
GC separation of phenols on a polyphenyl ether with six rings. I (139) 69
- Buryan, P., Macák, J. and Hrivňák, J.
Separation of monohydric alkylphenols by GC. II (137) 425
- Bushway, R. and Hanks, A.
Determination of rotenone in pesticide

- formulations and the separation of six rotenoids by reversed-phase HPLC (134) 210
- Byast, T.H.
Reversed-phase HPLC of some common herbicides (134) 216
- Bye, A. and Land, G.
GLC determination of sulphadiazine and its major metabolite in human plasma and urine (139) 181
- Byrne, J.A., Brown, J.K., Chaubal, M.G. and Malone, M.H.
TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489
- Byrne, K.M., Kershner, A.S., Maehr, H., Marquez, J.A. and Schaffner, C.P.
Separation of gentamicin C-complex into five components by Craig distribution (131) 191
- ## C
- Cadger, T., see Cashion, P. (136) 159
- Cadger, T., see Cashion, P.J. (135) 189
- Caissie, G.E., see Berkane, K. (139) 386
- Callmer, K., Edholm, L.-E. and Smith, B.E.F.
Study of retention behaviour of alkylphenols in straight- and reversed-phase LC and application to the analysis of complex phenolic mixtures in conjunction with GC (136) 45
- Callmer, K., see Edholm, L.-E. (137) 363
- Campos, A., Borque, L. and Figueroa, J.E.
Preferential solvation of poly(dimethylsiloxane) and poly(methyl methacrylate) in benzene-methanol mixtures by GPC (140) 219
- Cantera-Soler, A.M., see Villanueva, V.R. (139) 381
- Cantey, J.R., see Lamar, C. Jr. (137) 471
- Cantfort, J. van, see Van Cantfort, J. (133) 153
- Capitano, G., see Tscherne, R.J. (136) 337
- Cappellini, L., see Pantarotto, C. (131) 430, (134) 307
- Cardwell, T.J. and Carter, M.R.L.
GC monitoring of the reaction of beryllium oxycacetate and beryllium oxypropionate in acetone solution (140) 93
- Carignan, G., Lanouette, M. and Lodge, B.A.
TLC system for the semi-quantitative analysis of the ratio of α - and β -dihydroequilin in the diol fraction of equine estrogen conjugates (135) 523
- Carlo, F.J. di, see Di Carlo, F.J. (132) 45
- Carlson, N.P., see Clarke, J.F.G. Jr. (134) 397
- Carreño, T.G. and Rubi, J.A.M.
GC determination of the heat of adsorption of benzene and its monohalogeno derivatives adsorbed on montmorillonite-pyridinium (in French) (133) 184
- Carter, M.R.L., see Cardwell, T.J. (140) 93
- Carvalho, R.A.G. de, see De Carvalho, R.A.G. (136) 176
- Casagrande, D.J. and Park, K.
Simple GLC technique for the analysis of muramic acid (135) 208
- Cashion, P., Notman, H., Sathe, G., Cadger, T. and Tranquilla, T.
Improved synthesis of N⁴-anisoyldeoxycytidine using Bio-Rex 5 columns (136) 159
- Cashion, P.J., Notman, H.J., Cadger, T. and Sathe, G.M.
Purification of oligodeoxynucleotides on Sephadex G-10 columns (135) 189
- Casillo, M., Lederer, M. and Ossicini, L.
Paper electrophoretic study of ion-pair formation. XIII. Survey of the ion-pair forming properties of monovalent inorganic anions (135) 256
- Caspers, M.L., see Brown, R.K. (131) 223
- Cassaigne, A., see Jensen, H. (132) 556
- Castello, G., Bruschi, E. and Ghelli, G.
GC determination of the purity of vitamin K₃ (menadione) (139) 195
- Castello, G. and D'Amato, G.
Correlation between the physical properties and structure of alcohols and their GC behaviour on polar and non-polar stationary phases. I. C₁-C₈ straight-chain alcohols (131) 41
- Caude, M., see Chevalier, G. (138) 193
- Cautreels, W. and Van Cauwenberghe, K.
Fast quantitative analysis of organic compounds in airborne particulate matter by GC with selective MS detection (131) 253
- Cauwenberghe, K. van, see Van Cauwenberghe, K. (131) 253
- Čech, M., Jelinková, M. and Čoupek, J.
High-pressure chromatography of tobacco mosaic virus on Spheron gels (135) 435
- Čelap, M.B., Malinar, M.J., Sarić, S., Janjić, T.J. and Radivojša, P.N.
Effect of the composition and structure of cobalt(III) complexes on their R_F values obtained by partition PC. I. Effect of the position of nitro groups and the chelate ring size (139) 45
- Chan, K. W., see Hill, H.H. Jr. (131) 245
- Chang, J.Y. and Creaser, E.H.
Improved chromatographic identification of coloured amino acid thiohydantoin (132) 303
- Chang, J.Y. and Creaser, E.H.
Distinction of amino alcohols from amino acids by 4-N,N-dimethylaminoazobenzene-4'-isothiocyanate (135) 245
- Chang, J.Y., Creaser, E.H. and Hughes, G.J.
Separation of 4-N,N-

- dimethylaminoazobenzene-4'-thiohydantoin of amino acids by TLC on silica gel (140) 125
- Chang, S.H., see Schlabach, T.D. (134) 91
- Chapman, R.A. and Robinson, J.R.
Simplified method for the determination of residues of carbofuran and its metabolites in crops using GLC-mass fragmentography (140) 209
- Charlwood, B.V. and Bell, E.A.
Qualitative and quantitative analysis of common and uncommon amino acids in plant extracts (135) 377
- Chasseaud, L.F., see Woodhouse, R.N. (137) 218
- Chaubal, M.G., see Byrne, J.A. (137) 489
- Chawla, H.M., Chibber, S.S. and Saigal, R.
Separation and identification of some hydroxychalcones and their derivatives (138) 243
- Chawla, S.L., see Dang, S.K. (139) 207
- Chen, T.M., Hess, G.G. and Sievers, R.E.
Improvements in GC columns formed by *in situ* polymerization (134) 170
- Chevalier, G., Rohrbach, P., Bollet, C. and Caude, M.
Identification and quantitation of impurities from benorilate (Salipran) by HPLC (in French) (138) 193
- Chhabra, B.R., Gulati, R.S., Dhillon, R.S. and Kalsi, P.S.
Modified TLC method for the detection of phenols (135) 521
- Chibber, S.S., see Chawla, H.M. (138) 243
- Choudhary, V.R. and Parande, M.G.
GC study of binary diffusion of nitrobenzene and aniline in hydrogen (132) 344
- Chovanec, J., see Churáček, J. (139) 85
- Christensen, J.M., see Angelo, H.R. (140) 280
- Christophersen, A.S., Rasmussen, K.E. and Salvesen, B.
Determination of hydrochlorothiazide in serum by HPLC (132) 91
- Chriswell, C.D.
Removal of gas chromatographable organic compounds from water by a spray vaporization technique (132) 537
- Chriswell, C.D. and Fritz, J.S.
Selective concentration of amines from aqueous solutions by a gas purging technique (136) 371
- Chu, S.-Y. and Sennello, L.T.
GC determination of pemoline in biological fluids using electron capture detection (137) 343
- Chung, I.-J., see Hsu, H.-W. (138) 267
- Churáček, J., Pechová, H. and Chovanec, J.
Contribution to the standardization of results in PC and TLC (in German) (139) 85
- Cima, L., see Furlanot, M. (140) 270
- Clare, R.A., see Draffan, G.H. (139) 311
- Clark, J., Dewan, R., Locksley, H.D. and Maynard, R.
Pungent compounds. II. Detection and identification of paradols (alkyl 4-hydroxy-3-methoxyphenethyl ketones) by combined GC-MS (134) 315
- Clarke, J.F.G. Jr., Minn, J. and Carlson, N.P.
GC determination of some chloroethyl phthalimide compounds (134) 397
- Cleemann, M.
GC determination of propoxyphene and norpropoxyphene in plasma (132) 287
- Clemmer, T.A., see Albro, P.W. (136) 147
- Coffin, R.D. and Thompson, R.M.
Artifacts in the GC analysis of some sulfur-containing amino acids (138) 223
- Cohan, S.L., see Pohlmann, J.L.W. (131) 297
- Cole, W.J., Parkhouse, J. and Yousef, Y.Y.
Application of the extractive alkylation technique to the pentafluorobenzoylation of morphine (a heroin metabolite) and surrogates, with special reference to the quantitative determination of plasma morphine levels using mass fragmentography (136) 409
- Colin, H. and Guiochon, G.
Development and use of carbon adsorbents in HPLC. II. Reproducibility of carbon adsorbents and the influence of graphitization on their performance (137) 19
- Collin, E.J., see Burns, D.T. (133) 378
- Conlon, J.M., see Murphy, R.F. (135) 427
- Conner, A.Z., see Barth, H.G. (131) 375
- Copin, A., see Deleu, R. (134) 483
- Corbett, B.J., see Albro, P.W. (136) 147
- Cornwell, E.S., see Navarro, J.G. (138) 423
- Cosgrove, B.A. and Gay, I.D.
Simple device for sampling from vacuum systems to gas chromatographs (136) 306
- Costantino, U., see Alberti, G. (132) 477
- Čoupek, J., Unger, P. and Popl, M.
Properties and use of the sorbent Spheron SDA in GC (133) 91
- Čoupek, J., see Břizová, E. (139) 15
- Čoupek, J., see Čech, M. (135) 435
- Čoupek, J., see Novák, J. (139) 141
- Čoupek, J., see Rittich, B. (133) 345
- Creaser, E.H., see Chang, J.Y. (132) 303, (135) 245, (140) 125
- Cresswell, D.G., see Woodhouse, R.N. (137) 218
- Cridland, J.S. and Weatherley, B.C.
Determination of 2,4-diamino-5-(3,4-dichlorophenyl)-6-methylpyrimidine (BW 197U) in human plasma (137) 449
- Crozier, A., see Reeve, D.R. (137) 271
- Cuddeback, R.M., see Bier, M. (132) 437
- Currie, B.L., see Hansen, J.J. (135) 155
- Curtis, T.G. and Seitz, W.R.
Chemiluminescence: a new method for detecting fluorescent compounds separated by TLC (134) 343
- Curtis, T.G. and Seitz, W.R.
Coupling of chemiluminescence TLC detection to a Vidicon rapid scanning detector (134) 513
- Cvjetičanin, D.N., see Cvjetičanin, N.M. (140) 77

- Cvjetičanin, N.M. and Cvjetičanin, D.N.
Adsorption of trivalent iron in the ionic and colloidal states on silica gel impregnated with manganese dioxide (140) 77
- Czerwicz, Z.
GC analysis of aromatic sulphinylamines. II (139) 177
- Czerwicz, Z. and Maleta, E.
Separation of aromatic sulphinylamines by TLC (132) 168
- Czerwicz, Z. and Maleta, E.
Separation of aromatic sulphinylamines by TLC. II (137) 228
- ## D
- Daenens, P., see Van Boven, M. (134) 415
- Dahlgren Caldwell, K., see Porath, J. (133) 180
- D'Amato, G., see Castello, G. (131) 41
- Dang, S.K., Grover, P.D. and Chawla, S.L.
Chromatographic analysis of alkali chlorine cell gas (139) 207
- Darling, T., Albert, J., Russell, P., Albert, D.M. and Reid, T.W.
Rapid purification of an RNA tumor virus and proteins by high-performance steric exclusion chromatography on porous glass bead columns (131) 383
- Davankov, V.A., see Semechkin, A.V. (131) 65
- Davidek, J., Pudil, F. and Seifert, J.
Separation of thiamine and its derivatives on a Sephadex column (140) 316
- Davies, D.L., see Draffan, G.H. (139) 311
- Davies, D.S., see Draffan, G.H. (139) 311
- Davis, B.A., see Hui, K.S. (132) 131
- Davis, C.M., see Fenimore, D.C. (140) 9
- Davy, K.W.M. and Morris, C.J.O.R.
Applications of GLC in protein chemistry. II. Determination of amide residues in nanomolar amounts of proteins (136) 361
- Dawkins, J.V.
Solute-gel interactions in GPC of small molecules in organic media (135) 470
- De Brabander, H.F. and Verbeke, R.
Determination of thiocyanate in tissues and body fluids of animals by GC with electron-capture detection (138) 131
- De Carvalho, R.A.G., see González, C.G. (136) 176
- De Graeve, J., Van Cantfort, J. and Gielen, J.
Determination of papaverine in blood samples by GLC and mass fragmentography (133) 153
- De Groot, M., see Uyttendaele, K. (132) 261
- De Jong, G.J., Kok, W.T. and Brinkman, U.A.T.
Use of aqueous nitrite solutions in reversed-phase chromatography and liquid-liquid extraction (135) 249
- De Leenheer, A.P. and Nelis, H.J.C.F.
Reversed-phase HPLC of doxycycline (140) 293
- De Ligny, C.L., see Gelsema, W.J. (140) 149
- De Pascale, A., see Pantarotto, C. (134) 307
- De Roode, D., see Vermeulen, N.P.E. (137) 333
- De Rooy, J.F.M., see Van Boom, J.H. (131) 169
- De Ruwe, H.J.J.M., see Van den Berg, J.H.M. (138) 431
- De Silva, J.A.F., see Puglisi, C.V. (136) 391
- De Vries, G. and Brinkman, U.A.T.
Use of plastic foil in small-scale TLC (134) 235
- Dear, D.J.A., Dillon, A.F. and Freedman, A.N.
Determination of organic compounds in the hydrogen used for cooling large electricity generators (137) 315
- Debackere, M., see Delbeke, F.T. (133) 214, (136) 385
- Decallonne, J.R., see Rouchaud, J. (139) 376
- Deelder, R.S., see Van den Berg, J.H.M. (132) 421, (138) 431
- Deguchi, T., Hisanaga, A. and Nagai, H.
Chromatographic behaviour of inorganic anions on a Sephadex G-15 column (133) 173
- Dehnen, W., see Mönch, W. (140) 260
- Delbeke, F.T. and Debackere, M.
Detection of sympathomimetic central nervous stimulants with special reference to doping. I. Comparative study of a conventional extraction procedure and adsorption chromatography using XAD-2 resin (133) 214
- Delbeke, F.T. and Debackere, M.
Detection of sympathomimetic central nervous stimulants with special reference to doping. II. Comparative study of two adsorption chromatography methods using different XAD resins (136) 385
- Deleu, R., Barthelemy, J.-P. and Copin, A.
Identification of eleven urea herbicides by TLC and GLC. I. Application to natural waters (in French) (134) 483
- Deml, M., see Boček, P. (137) 83
- Derks, C.M.
Improvement in the determination of sulphur hexafluoride for use as a blood tracer (133) 428
- Desai, B.K., see Nand, S. (133) 359
- Desideri, P.G., see Lepri, L. (139) 337
- Deur-Šiftar, D., see Švob, V. (135) 85
- Dewan, R., see Clark, J. (134) 315
- DeWitte, W.J., see Sternson, L.A. (137) 305, (138) 229
- Deyl, Z., see Helm, R. (133) 390
- Dhillon, R.S., see Chhabra, B.R. (135) 521
- Di Carlo, F.J., see Zuleski, F.R. (132) 45
- Dilli, S. and Patsalides, E.
Chromatographic separation of isomeric forms of a tetradentate Schiff base derived

- from 1,1,1-trifluoro-5,5-dimethylhexane-2,4-dione and 1,2-diaminoethane (134) 477
- Dilli, S. and Pillai, D.N.
Relative electron capture response of the 2-chloroethyl derivatives of some barbituric acids and anticonvulsant drugs (137) 111
- Dilli, S. and Robards, K.
Comparative GC behaviour and detection limits of 2,6-di-*tert*-butyl-4-methylphenol, 3-*tert*-butyl-4-hydroxyanisole (BHA), and the trifluoroacetate of BHA (133) 363
- Dilli, S. and Szyszka, J.
GC of the pyrazoline derivative of trimethyl acetonate (132) 148
- Dillon, A.F., see Dear, D.J.A. (137) 315
- Dimov, N. and Papazova, D.
Qualitative GC analysis and determination of solute properties. Calculation of the retention indices of benzene homologues on squalane (137) 265
- Dimov, N., see Papazova, D. (137) 259
- Dittmar, K., see Heckers, H. (135) 93
- Djokić, S., see Kobrehel, G. (133) 415
- Djokić, S., see Lazarevski, T. (132) 309
- Djordjević, N.M., see Kopečni, M.M. (139) 1
- Dobberstein, R.H., see Wu, F.-F. (140) 65
- Dobson, K., see Gupta, R.N. (132) 140
- Doerr, R.C. and Fiddler, W.
Photolysis of volatile nitrosamines at the picogram level as an aid to confirmation (140) 284
- Doerr, R.C., see Wolfram, J.H. (132) 37
- Doly, J. and Petek, F.
Polyacrylamide gradient electrophoresis for protein purification on the milligram scale (137) 69
- Doms, E.K.
GC determination of the volatile fatty acids (C₁-C₅) including lactic acid after conversion into their benzyl esters by phenyldiazomethane. Determination of the acids in silages (in German) (140) 29
- Donald, A.S.R.
Separation of hexosamines, hexosaminotols and hexosamine-containing di- and trisaccharides on an amino acid analyser (134) 199
- Donike, M., Gola, R. and Jaenicke, L.
Determination of indolealkylamines after selective derivatisation (in German) (134) 385
- Dort, M.A. van, see Van Dort, M.A. (132) 152, (133) 210
- Doury-Berthod, M., Poitrenaud, C. and Tremillon, B.
Ligand-exchange separations of amino acids. I. Distribution equilibria of some amino acids between ammoniacal copper(II) nitrate solutions and phosphonic, carboxylic and iminodiacetic ion exchangers in the copper(II) form (131) 73
- Draffan, G.H., Clare, R.A., Davies, D.L., Hawksworth, G., Murray, S. and Davies, D.S.
Quantitative determination of the herbicide paraquat in human plasma by GC and MS methods (139) 311
- Driscoll, J.N.
Evaluation of a new photoionization detector for organic compounds (134) 49
- Drozd, J. and Novák, J.
Quantitative head-space gas analysis by the standard additions method. Determination of hydrophilic solutes in equilibrated gas-aqueous liquid systems (136) 37
- Duchoň, J., see Borovanský, J. (134) 230
- Dumkiewicz, W., see Soczewiński, E. (132) 379
- Dusci, L.J. and Hackett, L.P.
GC determination of valproic acid in human plasma (132) 145
- Dutton, H.J., see Eskins, K. (135) 217
- Dvorchik, B.H., Miller, S.H. and Graham, W.P.
GC determination of cocaine in whole blood and plasma using a nitrogen-sensitive flame ionization detector (135) 141
- Dybczyński, R., Polkowska-Motrenko, H. and Shabana, R.M.
Influence of temperature and degree of resin crosslinking on the anion exchange of phosphate complexes of Ga(III) and In(III) (134) 285
- Dyke, S.F., see Balderstone, P. (132) 359
- Dzido, T., see Soczewiński, E. (131) 408

E

- Eaton, R.F., see Gough, T.A. (137) 293
- Ebine, H., see Kiuchi, K. (133) 226
- Ecknig, W., see Hopf, S. (139) 249
- Edholm, L.-E. and Callmer, K.
LC study of brominated alkylphenols and investigation of product formation in the coulometric bromination of some alkyl-substituted phenols (137) 363
- Edholm, L.-E., see Callmer, K. (136) 45
- Edmonds, C.G., Smith, A.G. and Brooks, C.J.W.
Analysis of sponge sterols as the trimethylsilyl ethers and as the corresponding 5 α - and Δ^4 -3-ketosteroids using open-tubular GC-MS. Application of selective enzymic oxidation (133) 372
- Edwards, R.A., see Baloch, A.K. (139) 149
- Edwards, W.G. and Wellington, C.A.
Method for improved protein separation in human and animal sera (135) 463
- Eekelen, C.A.G. van, see Van Eekelen, C.A.G. (132) 519
- Egert, D.
Improved separation of some isomers and epimers of the pregnane series by TLC with repeated development (135) 481

- Ehman, J. and Gaucher, G.M.
Quantitation of patulin pathway metabolites using GLC (132) 17
- Ehmann, A.
The van Urk-Salkowski reagent: A sensitive and specific chromogenic reagent for silica gel TLC detection and identification of indole derivatives (132) 267
- Ehrsson, H. and Eksborg, S.
Quantitative GC determination of nefopam in plasma (136) 154
- Ehrsson, H., Eksborg, S., Wallin, I., Källberg, N. and Swanbeck, G.
Determination of 8-methoxy psoralen in plasma by electron capture GC (140) 157
- Eichelbaum, M. and Spannbrücker, N.
Rapid and sensitive method for the determination of antipyrine in biological fluids by HPLC (140) 288
- Eichelberger, J.W., see Budde, W.L. (134) 147
- Eksborg, S., see Ehrsson, H. (136) 154, (140) 157
- Ellington, J.J., see Severson, R.F. (139) 269
- Elstub, J., see Bartle, K.D. (135) 351
- Emmelot, P., see Tjaden, U.R. (136) 233
- Emmerling, D.C., see Freudenthal, R.I. (134) 207
- Endo, T., Kuwahara, A., Tasai, H. and Ishigami, T.
Modification of quantitative TLC by elution (140) 263
- Engel, G.
Investigation of the structure of mycotoxins and their quantitative analysis. IX. Sterigmatocystins (in German) (136) 182
- Engelhardt, H., see Boehme, W. (133) 67
- Engler, C.C., see Zinkel, D.F. (136) 245
- Enjalbert, F., see Andary, C. (132) 525
- Ericsson, T. and Samuelson, O.
Anion-exchange chromatography of dicarboxylic hydroxy acids (134) 337
- Erni, F., see Schauwecker, P. (136) 63
- Ernst, G.F., Pieterse, C. and Martens, L.J.H.
Comparison of drosophila, rat-liver and bee-head esterases in detecting residues of organophosphorus and carbamate pesticides in vegetables and fruits (133) 245
- Eskins, K., Scholfield, C.R. and Dutton, H.J.
HPLC of plant pigments (135) 217
- Evans, N.J., see Poole, C.F. (136) 73
- Everaerts, F.M., see Verheggen, T.P.E.M. (132) 205
- Eyem, J., see König, W.A. (133) 141
- Eyssen, H., see Adriaens, P. (140) 103
- Eyssen, H., see Meesschaert, B. (136) 162
- F**
- Faber, D.B., Kok, R.M. and Rempt-van Dijk, E.M.
Quantitative GC analysis of flunitrazepam in human serum with electron-capture detection (133) 319
- Fagerlund, C., see Hartvig, P. (140) 170
- Fairclough, R.J., Rabjohns, M.A. and Peterson, A.J.
Chromatographic separation of androgens, estrogens and progestogens on hydroxyalkoxypropyl-Sephadex (Lipidex) (133) 412
- Farkaš, J., see Štrop, P. (138) 47
- Fasco, M.J., Piper, L.J. and Kaminsky, L.S.
Biochemical applications of a quantitative HPLC assay of warfarin and its metabolites (131) 365
- Faupel, M., see Von Arx, E. (134) 529
- Favretto, L., see Stancher, B. (131) 309
- Feinberg, J.I., see Wolfram, J.H. (132) 37
- Felgenhauer, K., see Brown, R.K. (131) 223
- Fellous, R., Luft, R. and Rabine, J.-P.
Behaviour of ethers. VII. Principle of determination of the polar effect constants (in French) (133) 7
- Fellous, R., Luft, R. and Rabine, J.-P.
New σ_c^* polar effect constants scale adapted to chromatography (in French) (136) 5
- Fellous, R., Luft, R. and Rabine, J.-P.
Incrementation of polar effect constants in GLC (140) 137
- Fellous, R., Luft, R. and Rabine, J.-P.
Application of a Taft-type equation to retention data. Additivity of substituent effects (in French) (140) 143
- Fells, I., see Norman, P.W. (132) 533
- Feltl, L., see Bečka, J. (131) 179
- Fenimore, D.C., Whitford, J.H., Davis, C.M. and Zlatkis, A.
Nickel GC columns: An alternative to glass for biological samples (140) 9
- Fenoughty, M., see Bailey, E. (131) 347
- Fiddler, W., see Doerr, R.C. (140) 284
- Fiddler, W., see Wolfram, J.H. (132) 37
- Figge, K., Koch, J. and Lubba, H.
Contribution to the GC analysis of organotin stabilizers for polyvinyl chloride (in German) (131) 317
- Figueruelo, J.E., see Campos, A. (140) 219
- Fini, C., see Floridi, A. (138) 203
- Fischesser, G.J. and Seymour, M.D.
Determination of alkyl ethoxylate mixtures by programmed multiple development TLC (135) 165
- Fischesser, G.J., see Maile, R.J. Jr. (132) 366
- Fisher, A.C. and Stefanovich, V.
Thin-layer electrophoretic separation of the

- degradation products of cyclic adenosine-3',5'-monophosphate (137) 240
- Flanagan, R.J. and Berry, D.J.
Routine analysis of barbiturates and some other hypnotic drugs in the blood plasma as an aid to the diagnosis of acute poisoning (131) 131
- Flanagan, R.J. and Lee, T.D.
Rapid micro-method for the measurement of ethchlorvynol in blood plasma and in urine by GLC (137) 119
- Flieder, F., see Arpino, P. (134) 433
- Floch, H.H., see Kerebel, A. (140) 229
- Flores, J.J., Bonner, W.A. and Van Dort, M.A.
GC resolution of DL-isovaline (132) 152
- Floridi, A., Palmerini, C.A. and Fini, C.
Simultaneous analysis of bases, nucleosides and nucleoside mono- and polyphosphates by HPLC (138) 203
- Flynn, M.A., see Gerhardt, K.O. (135) 341
- Flynn, T.C., see Pape, B.E. (134) 1
- Folkers, K., see Hansen, J.J. (135) 155
- Forni, G. and Massarani, G.
HPLC determination of colchicine and colchicoside in colchicum (*Colchicum autumnale* L.) seeds on a home-made stationary phase (131) 444
- Franc, J. and Pour, J.
Continuous elemental analysis of nitrogen-containing substances by the use of GC (131) 285
- Franc, J. and Pour, J.
Identification of substances containing carbon-carbon single bonds by use of reaction GC (131) 291
- Fredriksson, S.
Comparison of the buffer capacities of Ampholine and Servalyt carrier ampholyte systems used in isoelectric focusing (135) 441
- Freedman, A.N., see Dear, D.J.A. (137) 315
- Frei, R.W., see Krummen, K. (132) 27, (132) 429
- Frei, R.W., see Schauwecker, P. (136) 63
- Frenkel, M.J., see Blagrove, R.J. (132) 399
- Freudenthal, R.I., Emmerling, D.C. and Baron, R.L.
Separation of rotenoids by HPLC (134) 207
- Frigerio, A., Lanzoni, J., Pantarotto, C., Rossi, E., Rovei, V. and Zanol, M.
Epoxide-diol metabolic pathway of cytenamide in the rat (134) 299
- Frigerio, A., see Pantarotto, C. (131) 430, (134) 307
- Fritz, J.S., see Chriswell, C.D. (136) 371
- Froehlich, P.M. and Ross, G.
Separation and detection of phencyclidine in urine by GC (137) 135
- Fujii, T.
Direct aqueous injection GC-MS for analysis of organohalides in water at concentrations below the parts per billion level (139) 297
- Fujiki, H. and Zurek, G.
Improved procedure for peptide characterization using TLC and a fluorescamine indicator (140) 129
- Fukumura, T., see Kitaoka, Y. (132) 175
- Furlanut, M., Cima, L., Benetello, P. and Giusti, P.
GLC determination of dextromethorphan in serum and brain (140) 270
- Furukawa, H., Mori, Y., Takeuchi, Y. and Ito, K.
Separation of L- and D-amino acids as diastereomeric derivatives by HPLC (136) 428
- ## G
- Gabetta, B., see Bombardelli, E. (139) 111
- Gage, L.D., see Smith, S.C. (131) 425
- Galante, E., see Righetti, P.G. (137) 171
- Garel, J.-P., see Bloch, J.-C. (137) 93
- Garland, W.A., see Min, B.H. (139) 121
- Garle, M. and Petters, I.
GC determination of barbiturates by extractive alkylation and support coated open tubular column separation (140) 165
- Gaspar, P., see Laitem, L. (140) 266
- Gaucher, G.M., see Ehman, J. (132) 17
- Gawdzik, J. and Jaroniec, M.
Determination of the isosteric heat of adsorption by adsorption GC (131) 1
- Gawdzik, J., Suprynowicz, Z. and Jaroniec, M.
Studies of chromatographic packings comprising chemically bonded phases obtained from porous glass beads. I. Sorption properties and surface heterogeneity (131) 7
- Gawdzik, J., see Suprynowicz, Z. (133) 349
- Gay, I.D., see Cosgrove, B.A. (136) 306
- Gazda, K., see Soczewinski, E. (131) 408
- Gehrke, C.W., see Gerhardt, K.O. (135) 341
- Gelsema, W.J., De Ligny, C.L. and Van der Veen, N.G.
Isoelectric focusing as a method for the characterization of ampholytes. II. pH measurements in solvent mixtures used in density-gradient isoelectric focusing (140) 149
- Gerber, N., see Lynn, R.K. (131) 329
- Gerhardt, K.O., Gehrke, C.W., Rogers, I.T., Flynn, M.A. and Hentges, D.J.
GLC of fecal neutral steroids (135) 341
- Ghelli, G., see Castello, G. (139) 195
- Ghosh, D., see Guilford, J. (133) 218
- Gianazza, E., see Righetti, P.G. (134) 279, (137) 171
- Gielen, J., see De Graeve, J. (133) 153
- Gielen, W., see Steinbach, H. (139) 191
- Gill, J.S., see Alberti, G. (132) 477

- Gillett, D., see Bailey, G. (133) 386
- Giusti, P., see Furlanut, M. (140) 270
- Glajch, J.L., see Lubkowitz, J.A. (133) 37
- Glazko, A.J., see Schneider, H.G. (139) 370
- Glebo, L.I., see Burtseva, T.I. (131) 464
- Goenechea, S. and Wagner, G.M.
TLC determination of pemoline in urine after ingestion of therapeutic doses (in German) (140) 134
- Gola, R., see Donike, M. (134) 385
- Goldberg, W.M.
Complete separation of iodotyrosine-iodohistidine-iodide mixtures on thin-layer plates with a single-solvent system (134) 246
- Golkiewicz, W., see Soczewiński, E. (131) 408
- González, C.G. and De Carvalho, R.A.G.
Lanthanum tellurate, a new inorganic ion exchanger (136) 176
- Gooding, K.M., see Schlabach, T.D. (134) 91
- Gordon, W.P., see Lynn, R.K. (131) 329
- Görög, S., Herényi, B. and Jovánovics, K.
HPLC of Catharanthus alkaloids (139) 203
- Goswami, T.K., see Guha, O.K. (135) 359
- Gough, T.A., Webb, K.S. and Eaton, R.F.
Simple chemiluminescent detector for the screening of foodstuffs for the presence of volatile nitrosamines (137) 293
- Goździcka-Józefiak, A. and Augustyniak, J.
Preparation of chelating exchangers with a polysaccharide network and low cross-linkage (131) 91
- Graeve, J. de, see De Graeve, J. (133) 153
- Graham, K.C., see Vilim, A. (133) 239
- Graham, W.P., see Dvorchik, B.H. (135) 141
- Greibrokk, T., see Hansen, J.J. (135) 155
- Grenier, P., see Grenier-Loustalot, M.F. (138) 63
- Grenier-Loustalot, M.F., Bonastre, J., Potin, M. and Grenier, P.
Influence of conformations and structures on retention values of cycloalkanes and cycloalkanones (in French) (138) 63
- Gresham, D., see Abraham, C.V. (136) 332
- Gribnau, T.C.J., Van Eekelen, C.A.G., Stumm, C. and Tesser, G.I.
Microscopic observations on agarose beads. Dehydration by solvent exchange as an alternative to lyophilization (132) 519
- Grob, K., see Grob, K. Jr. (140) 257
- Grob, K. Jr. and Grob, K.
Pluronics as liquid phases for capillary GLC (140) 257
- Grodzińska-Zachwieja, Z., see Soczewiński, E. (137) 182
- Groleau, D. and Yaphe, W.
Quantitative TLC assay for the β -neogargarotetraose hydrolase of *Pseudomonas atlantica* (137) 234
- Groote, M. de, see De Groote, M. (132) 261
- Grove, J. and Martin, B.K.
GLC of methylpentynol carbamate and its metabolite 3-methylpentyn-3,4-diol (133) 267
- Grover, P.D., see Dang, S.K. (139) 207
- Gruber, K.A., see Radhakrishnan, A.N. (132) 552
- Grüning, F., see Tutschek, R. (139) 211
- Grushka, E., see Kikta, E.J. Jr. (135) 367
- Grushka, E., see Milano, M.J. (133) 352
- Gugler, R., see Jensen, C.J. (137) 188
- Guha, O.K. and Goswami, T.K.
GC behaviour of some polynuclear hydrocarbons on cadmium chloride columns modified with Carbowaxes (135) 359
- Guilford, J., Hickman, E. and Ghosh, D.
Simple and sensitive GLC method for the determination of α,p' -DDD in biological fluids (133) 218
- Guillemin, C.L. and Martinez, F.
High-speed GC analysis in process control (139) 259
- Guillemonat, A., see Siouffi, A.M. (137) 35
- Guiochon, G., see Arpino, P. (138) 173
- Guiochon, G., see Colin, H. (137) 19
- Guiochon, G., see Siouffi, A.M. (137) 35
- Gulati, R.S., see Chhabra, B.R. (135) 521
- Gupta, R.N., Dobson, K. and Keane, P.M.
GLC determination of primidone in plasma (132) 140
- Gustafson, M.E., Nicholas, A.W. and Rosazza, J.P.
HPLC of derivatives and microbial metabolites of withaferin-A (137) 465
- ## H
- Haas, H.J., see Bach, K. (136) 186
- Habault, F., see Jensen, H. (132) 556
- Hach, P., see Borovanský, J. (134) 230
- Hack, M.H. and Helmy, F.M.
TLC resolution of molecular species of ethanolamine plasmalogen quantitatively unique to myelin (135) 229
- Hackett, L.P., see Dushi, L.J. (132) 145
- Hackman, M.R., see Brooks, M.A. (135) 123
- Hadžija, O. and Keglević, D.
Simple method for the separation of amino acids, amino sugars and amino alcohols related to the peptidoglycan components on a standard amino acid analyser (138) 458
- Haimova, M.A., see Palamareva, M.D. (132) 73
- Hais, I.M., see Marklová, E. (131) 205
- Haken, J.K., Wainwright, M.S. and Smith, R.J.
Problem of accuracy of mathematical dead-time estimation (133) 1
- Haken, J.K., see Ashes, J.R. (135) 61, (135) 67
- Haldorsen, K.M.
Vanadium pentoxide in sulphuric acid, a

- general chromogenic spray reagent for carbohydrates (134) 467
- Haller, W., Basedow, A.M. and König, B. General permeation chromatography equation and its application to tailor-made controlled pore glass columns (132) 387
- Hallett, C., see Moore, B. (137) 215
- Hamilton, H.E., see Wallace, J.E. (138) 111
- Hanks, A., see Bushway, R. (134) 210
- Hansen, J.J., Greibrokk, T., Currie, B.L., Johansson, K.N.-G. and Folkers, K. HPLC of peptides (135) 155
- Hara, S. Use of TLC systems in HPLC separations. Procedure for systematization and design of the separation process in synthetic chemistry (137) 41
- Harapat, S.R., see Meffin, P.J. (132) 503, (138) 183
- Hardman, R. and Benjamin, T.V. Quantitative determination of phytoecdysones as illustrated by application to species of *Helleborus* (131) 468
- Harduf, Z., Bielora, R. and Alumot, E. Norleucine: An internal standard for the basic column used in physiological amino acid analysis (139) 215
- Harris, W.S., Marai, L., Myher, J.J. and Subbiah, M.T.R. Bile acid ethyl esters. Their infrequent formation during routine bile acid analysis and identification by GC and MS (131) 437
- Harrison, D.C., see Meffin, P.J. (132) 503, (138) 183
- Hartvig, P. and Fagerlund, C. Extractive alkylation of biological samples of cloquinol or chloroquinol and determination by electron capture GC (140) 170
- Hartvig, P. and Näslund, B. Simultaneous determination of plasma amitriptyline and nortriptyline as trichloroethyl carbamates by electron-capture GC (133) 367
- Harzer, K. and Barchet, R. Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83
- Haseman, J.K., see Albro, P.W. (136) 147
- Hashimoto, T., see Kato, Y. (134) 204
- Hastings Vogt, C.R., Ko, C.Y. and Ryan, T.R. Simple ureas derived from diisocyanates and their LC on a 5-cm column (134) 451
- Hausdorff, H.H. Selective IR detectors for chromatography (134) 131
- Hawkes, S., see Bowers, W. (134) 166
- Hawksworth, G., see Draffan, G.H. (139) 311
- Hayes, W.P., Steele, P. and Burns, D.T. Identification and determination of 1,3-diisobutylate-2,2,4-trimethylpentane (Texanol isobutylate) in polyvinyl chloride plastisol coating formulations (139) 395
- Haythorn, P., see Sheehan, M. (132) 237
- Heck, H.d'A., Simon, R.L. and Anbar, M. Isotopic fractionation in TLC (133) 281
- Heckers, H., Dittmar, K., Melcher, F.W. and Kalinowski, H.O. Silar 10 C, Silar 9 CP, SP 2340 and OV-275 in the GLC of fatty acid methyl esters on packed columns. Chromatographic characteristics and molecular structures (135) 93
- Heckers, H., Melcher, F.W. and Schloeder, U. SP 2340 in the glass capillary chromatography of fatty acid methyl esters (136) 311
- Heizmann, P. and Ballschmiter, K. Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153
- Heizmann, P., see Lohmüller, M. (137) 165
- Helm, R., Vančíková, O., Macek, K. and Deyl, Z. Separation of methylated basic amino acids (133) 390
- Helmy, F.M., see Hack, M.H. (135) 229
- Henselová, M., see Kováč, J. (133) 420
- Hentges, D.J., see Gerhardt, K.O. (135) 341
- Herényi, B., see Görög, S. (139) 203
- Hertel, R.H., see Strauss, P.A. (134) 39
- Hess, G.G., see Chen, T.M. (134) 170
- Heyndrickx, A.M., see Martens, F.K. (140) 86
- Hickman, E., see Guilford, J. (133) 218
- Hicks, S.Z. Jr., see Pu, H.H. (132) 495
- Hiermann, A. and Kartnig, T. Separation and quantification of flavonoids on HPTLC silica gel 60 plates (in German) (140) 322
- Hilker, D.M., see Patzer, E.M. (135) 489
- Hill, H.H. Jr. and Aue, W.A. Silicon detector for GC (140) 1
- Hill, H.H. Jr., Chan, K. W. and Karasek, F.W. Extraction of organic compounds from airborne particulate matter for GC analysis (131) 245
- Hill, H.H. Jr., see Karasek, F.W. (135) 329
- Hill, R.E. Retention behaviour of a bonded reversed phase in a HPLC assay of serum theophylline (135) 419
- Hill, R.E. and Latham, A.N. Simultaneous determination of anticonvulsant drugs by GLC (131) 341
- Hisanaga, A., see Deguchi, T. (133) 173
- Hjertén, S., see Pählman, S. (131) 99
- Hodgin, J.C., Kaiser, M.A., Lubkowitz, J.A. and Rogers, L.B. Rapid method for characterization of heavy petroleum fractions (135) 514
- Hoeven, R.P. van, see Van Hoeven, R.P. (136) 233
- Höfkes, H., see Baumgarten, E. (138) 347

Hogge, L.R., see MacKenzie, S.L. (132) 485
 Holm, J., see Ingemann Hansen, S. (134) 517
 Holmes, M.M., see Vinson, J.A. (140) 71
 Homberg, E.
 Relationship between the structure of plant sterols and their retention behaviour in GC on several stationary phases (in German) (139) 77
 Hoodless, R.A., Sargent, M. and Treble, R.D.
 Optimisation of the performance of a three-electrode thermionic detector for the detection of phosphorus, sulphur and nitrogen compounds by GC (136) 199
 Hooker, D.M., see Ashworth, A.J. (131) 399
 Hooyma, J.E., see Vinson, J.A. (135) 226, (140) 71
 Hopf, S., Ecknig, W. and Thürmer, H.
 Dynamical flow splitter for use in preparative-scale GC (in German) (139) 249
 Horáková, J., see Novák, J. (131) 303
 Hoshika, Y.
 GC determination of styrene as its dibromide (136) 95
 Hoshika, Y.
 GC separation of lower aliphatic primary amines as their sulphur-containing Schiff bases using a glass capillary column (136) 253
 Hoshika, Y.
 Simple and rapid GLSC analysis of trace concentrations of acetaldehyde in urban air (137) 455
 Hoshika, Y. and Iida, Y.
 GC determination of sulphur compounds in town gas (134) 423
 Hostettmann, K., see Becker, H. (136) 174
 Hougén, F.W., see McKeag, R.G. (136) 308
 Howard, A.G., see Moore, B. (137) 215
 Hrivňák, J., see Buryan, P. (137) 425
 Hrkal, Z. and Vodrážka, Z.
 Isolation of serum albumin and immunoglobulins by chromatography on Con-A Sepharose and Sephadex G-150 (135) 193
 Hrkal, Z., see Suttner, J. (131) 453
 Hsu, H.-W. and Chung, I.-J.
 Effect of pH on polyelectrolytes in adsorption chromatography (138) 267
 Huber, D., see Massow, F. v. (138) 232
 Huber, J.F.K., see Lauer, H.H. (132) 1
 Huber, J.F.K., see Van der Wal, S. (135) 287, (135) 305
 Hucker, H.B. and Stauffer, S.C.
 Determination of various drugs in rodent diet mixtures (131) 357
 Hucker, H.B. and Stauffer, S.C.
 Rapid, sensitive GLC method for determination of amitriptyline and nortriptyline in plasma using a nitrogen-sensitive detector (138) 437
 Hughes, G.J., see Chang, J.Y. (140) 125
 Hui, K.S. and Davis, B.A.
 Postulated tetraphenylporphyrin-zinc

tetraphenylporphyrin sandwich complex (132) 131
 Hultman, E., see Palmkog, G. (140) 310
 Humphreys, J.D., see Marshall, J.J. (137) 468
 Husain, S., Kunzelmann, P. and Schildknecht, H.
 Separation of isomeric alkylphenols by HPLC and GLC techniques (137) 53
 Hutzinger, O., see Tulp, M.T.M. (139) 51
 Hynninen, P.H., see Sievers, G. (134) 359

I

Iacobucci, G.A., see Wilkinson, M. (132) 349
 Iida, Y., see Hoshika, Y. (134) 423
 Imai, K., Tsukamoto, M. and Tamura, Z.
 HPLC assay of rat-brain dopamine and norepinephrine (137) 357
 Imam, A., see Murphy, R.F. (135) 427
 Ingemann Hansen, S., Holm, J. and Lyngbye, J.
 Difference between free and ligand-bound folate-binding protein in cow's milk concerning affinity for chromatographic gels (134) 517
 Irwin, W.J. and Slack, J.A.
 Pyrolysis GC-MS study of medicinal sulphonamides (139) 364
 Ishibashi, K., see Yoza, N. (134) 497
 Ishibashi, M., see Miyazaki, H. (133) 311, (135) 109
 Ishibashi, T., see Kawabata, T. (140) 47
 Ishigami, T., see Endo, T. (140) 263
 Issaq, H.J. and Barr, E.W.
 Detection reagent for adenine, guanine, uracil, cytosine and their alkylated bases, nucleotides and nucleosides on thin-layer plates (132) 121
 Issaq, H.J., Barr, E.W., Wei, T., Meyers, C. and Aszalos, A.
 TLC classification of antibiotics exhibiting antitumor properties (133) 291
 Issaq, H.J., Barr, E.W. and Zielinski, W.L. Jr.
 Separation of alkylated guanines, adenines, uracils and cytosines by TLC (131) 265
 Issaq, H.J., Barr, E.W. and Zielinski, W.L. Jr.
 Nondestructive distinction between aflatoxin B₁ and ethoxyquin in TLC (132) 115
 Ito, K., see Furukawa, H. (136) 428
 Ito, M., see Tsukida, K. (134) 331
 Ito, Y. and Bowman, R.L.
 Preparative countercurrent chromatography with a slowly rotating helical tube (136) 189
 Itoh, M., see Miyazaki, H. (133) 311, (135) 109
 Ivanov, A.S., see Pankova, M.C. (137) 198

J

- Jackson, N., see Anderson, R. (135) 447
- Jaenicke, L., see Donike, M. (134) 385
- Jain, R.S., Binder, R.L., Levy-Benshimol, A., Buck, C.A. and Warren, L.
Purification of α -L-fucosidase from various sources by affinity chromatography (139) 283
- Jain, R.S., Binder, R.L., Walz, C., Buck, C.A. and Warren, L.
Purification of β -N-acetyl-D-glucosaminidase of the horseshoe crab by affinity chromatography (136) 141
- Jakobs, U., see Amin, M. (131) 391
- Jakovljevic, I.M., Bishara, R.H. and Kress, T.J.
TLC separation of several chloro- and methyl-substituted 2-aminopyridines (134) 238
- Jakubowski, H.
Use of ω -aminohexyl-Sepharose in the fractionation of *Escherichia coli* B aminoacyl-tRNA synthetases (139) 331
- James, L.B.
Amino acid analysis: A novel reaction chamber (136) 417
- Janák, J., see Boček, P. (137) 83
- Janák, J., see Novák, J. (138) 1
- Janák, J., see Soják, L. (135) 71, (138) 119
- Janča, J.
Concentration effects in GPC. I. Polymer solution properties (134) 263
- Janča, J. and Kolínský, M.
Coupling of a gel-permeation chromatograph and an automatic capillary viscometer. I. Influence of the column efficiency (132) 187
- Janča, J. and Pokorný, S.
Coupling of a gel permeation chromatograph and an automatic capillary viscometer. II. Method for the determination of the molecular weight distribution and of the resolution factor (134) 273
- Janini, G.M., Shaikh, B. and Zielinski, W.L. Jr.
GLC analysis of benzo[a]pyrene in cigarette smoke on a nematic liquid crystal (132) 136
- Janjić, T.J., see Čelap, M.B. (139) 45
- Janssen, G. and Vanderhaeghe, H.
Preparation of trimethylsilyl derivatives of thiamphenicol (134) 365
- Jarc, H., Ruttner, O. and Krocza, W.
Quantitative detection of estrogens and antithyroid drugs by TLC and HPTLC in animal tissue (in German) (134) 351
- Jaroniec, M., see Gawdzik, J. (131) 1, (131) 7
- Jaroniec, M., see Suprynowicz, Z. (133) 349
- Jelínková, M., see Čech, M. (135) 435
- Jensen, C.J. and Gugler, R.
Sensitive GLC method for determination of valproic acid in biological fluids (137) 188
- Jensen, H., Habault, F., Lacoste, A.M., Cassaigne, A. and Neuzil, E.
Chromatographic analysis of phosphonic analogues of dipeptides (in French) (132) 556
- Johnsson, K.N.-G., see Hansen, J.J. (135) 155
- John, E.D. and Nickless, G.
GC method for the analysis of major polynuclear aromatics in particulate matter (138) 399
- Johnson, E., Abu-Shumays, A. and Abbott, S.R.
Use of fluorescence detection in HPLC (134) 107
- Johnson, R.N., see Smith, K.M. (137) 431
- Johnstone, S.J., see Wells, D.E. (140) 17
- Jong, G.J. de, see De Jong, G.J. (135) 249
- Jönsson, J.Å.
Direct measurement of GC retention volume. III. Software (139) 156
- Jovánovics, K., see Görög, S. (139) 203
- Jungclaus, G.A.
Formation of amine-N-trifluoroacetyl derivatives from the amine hydrochloride salts (139) 174

K

- Kagrammanova, V.K., see Aukaty, M.F. (137) 351
- Kaiser, M.A., see Hodgkin, J.C. (135) 514
- Kaistha, K.K. and Tadrus, R.
Single- and two-step extraction and thin-layer detection procedures for benzoylecgonine (cocaine metabolite) alone or in combination with a wide variety of commonly abused drugs in urine screening programs (135) 385
- Kalinowski, H.O., see Heckers, H. (135) 93
- Källberg, N., see Ehrsson, H. (140) 157
- Kalsi, P.S., see Chhabra, B.R. (135) 521
- Kaminsky, L.S., see Fasco, M.J. (131) 365
- Kamp, C.G. van de, see Van de Kamp, C.G. (131) 412
- Kaneda, T.
GC retention characteristics of ω -alicyclic fatty acids (136) 323
- Kangas, L.
Comparison of two GLC methods for the determination of nitrazepam in plasma (136) 259
- Karasek, F.W., Hill, H.H. Jr., Kim, S.H. and Rokushika, S.
GC detection modes for the plasma chromatograph (135) 329
- Karasek, F.W., see Hill, H.H. Jr. (131) 245
- Karobath, M., see Schmid, R. (139) 101

- Kartnig, T. and Kobosil, P.
Separation of digitalis cardenolides by HPTLC (in German) (138) 238
- Kartnig, T., see Hiermann, A. (140) 322
- Kato, Y., Seita, T., Hashimoto, T. and Shimizu, A.
Separation of nucleic acid bases and nucleosides by high-performance affinity chromatography (134) 204
- Kaufman, P.
Separation of butylated hydroxyanisole isomers on Sephadex LH-20 (132) 356
- Kawabata, T., Ohshima, H., Ishibashi, T., Matsui, M. and Kitsuwa, T.
GC determination of methylguanidine, guanidine and agmatine as their hexafluoroacetylacetonates (140) 47
- Kawazu, K.
Comparison of efficiency of cation-exchange resins in the chromatographic separation of metal ions with aqueous acetone-hydrochloric acid solution (137) 381
- Keane, P.M., see Gupta, R.N. (132) 140
- Keglević, D., see Hadžija, O. (138) 458
- Keiser, J.E., see Baaske, D.M. (140) 57
- Kelly, G.J.C., see Murphy, R.F. (135) 427
- Kelly, R.C., Valentour, J.C. and Sunshine, I.
Solvent suppression of the decomposition of phenobarbital during on-column methylation with trimethylanilinium hydroxide (138) 413
- Kelsey, M.I. and Sexton, S.A.
Isolation and purification of lithocholic acid metabolites produced by the intestinal microflora (133) 327
- Kerebel, A., Morfin, R.F., Berthou, F.L., Picart, D., Bardou, L.G. and Floch, H.H.
Analysis of C₁₉O₃ steroids by TLC and GLC and MS (140) 229
- Kershner, A.S., see Byrne, K.M. (131) 191
- Kettesen-van den Bosch, J.J. and Salemink, C.A.
Cannabis. XVI. Constituents of marihuana smoke condensate (131) 422
- Khan, M.-U. and Williams, J.P.
Improved TLC method for the separation of major phospholipids and glycolipids from plant lipid extracts and phosphatidyl glycerol and bis(monoacylglyceryl) phosphate from animal lipid extracts (140) 179
- Kho, B.T., see Smith, K.M. (137) 431
- Kikic, I., see Alessi, P. (131) 31, (133) 190
- Kikta, E.J. Jr. and Grushka, E.
Bonded peptide stationary phases for the separation of amino acids and peptides using LC (135) 367
- Kikta, E.J. Jr. and Stange, A.E.
Phenones: A family of compounds broadly applicable to use as internal standards in HPLC. Application to the analysis of carbofuran (138) 41
- Kikta, E.J. Jr., Stange, A.E. and Lam, S.
Inexpensive temperature control system for HPLC. Application to carbofuran analysis and temperature programming for LC analysis (138) 321
- Kim, S.H., see Karasek, F.W. (135) 329
- Kinnier, W.J. and Wilson, J.E.
Complete analysis of protein hydrolysates containing phosphoserine and phosphothreonine using the amino acid analyzer (135) 508
- Kirkpatrick, D.
Separation of optical brighteners by LSC. II (139) 168
- Kirret, O., see Krull, M. (135) 212
- Kitao, T., see Kitaoka, Y. (132) 175
- Kitaoka, Y., Yamase, I., Fukumura, T. and Kitao, T.
Electrophoretic behaviour of congo red dyes in aqueous dimethylformamide containing an electrolyte (132) 175
- Kitsuwa, T., see Kawabata, T. (140) 47
- Kiuchi, K., Ohta, T. and Ebine, H.
HPLC separation and quantitative analysis of synthetic phospholipids (133) 226
- Klemm, G., see Blasius, E. (135) 323
- Klimes, I., Stünzi, W. and Lamparsky, D.
Nanogram techniques. I. Injection without losses on capillary GLC columns (in German) (136) 13
- Klimes, I., Stünzi, W. and Lamparsky, D.
Nanogram techniques. II. Micro-scale preparative GC (in German) (136) 23
- Knight, J.C.
Analysis of Fenugreek saponin by GLC (133) 222
- Knight, J.C.
Chromatography of the reduction products of spectinomycin (136) 432
- Knödgen, B., see Seiler, N. (131) 109
- Knuutinen, J., see Sattar, M.A. (135) 395, (136) 379
- Ko, C.Y., see Hastings Vogt, C.R. (134) 451
- Kobosil, P., see Kartnig, T. (138) 238
- Kobrehel, G., Tamburašev, Z. and Djokić, S.
Erythromycin series. IV. TLC of erythromycin, erythromycin oxime, erythromcyclamine and their acyl derivatives (133) 415
- Koch, J., see Figge, K. (131) 317
- Koch, W.L., see Sondack, D.L. (132) 352
- Kodama, A., see Tsukida, K. (134) 331
- Kogerman, A., see Krull, M. (135) 212
- Koharcheck, H., see Vinson, J.A. (140) 71
- Kok, R.M., see Faber, D.B. (133) 319
- Kok, W.T., see De Jong, G.J. (135) 249
- Kolb, B., Auer, M. and Pospisil, P.
Ionization detector for GC with switchable selectivity for carbon, nitrogen and phosphorus (134) 65
- Kolinský, M., see Janča, J. (132) 187
- König, B., see Haller, W. (132) 387
- König, W.A., Rahn, W. and Eyem, J.
GC separation of diastereoisomeric amino acid derivatives on glass capillaries. The

- use of pentafluoropropionyl-amino acid (+)-3-methyl-2-butyl esters (133) 141
- Konrad, Z., see Kozjak, B. (132) 323
- Kootstra, A., see Bailey, G. (133) 386
- Kopečni, M.M., Milonjić, S.K. and Djordjević, N.M.
Thermodynamics of molecular association. Tri-*n*-alkylamine-chloroalkane systems (139) 1
- Kopwille, A., see Bier, M. (132) 437
- Korpela, T.
Device for regeneration of cation-exchange resins with hydrochloric acid (133) 237
- Kouřilová, D. and Krejčí, M.
Longitudinal temperature gradients in LC with a binary mobile phase (138) 329
- Kováč, J. and Henselová, M.
Detection of triazine herbicides in soil by a Hill-reaction inhibition technique after TLC (133) 420
- Kozjak, B., Marinić, Z., Konrad, Z., Musani-Marazović, L. and Pučar, Z.
Electrophoretic investigations of the complexing of cadmium and zinc with EDTA (132) 323
- Kraak, J.C., see Terweij-Groen, C.P. (138) 245
- Krejčí, M., see Kouřilová, D. (138) 329
- Kress, T.J., see Jakovljević, I.M. (134) 238
- Krijgsman, W. and Van de Kamp, C.G.
Determination of chlorophenols by capillary GC (131) 412
- Krishnaswamy, N., see Mehta, B.J. (135) 455
- Krocza, W., see Jarc, H. (134) 351
- Król, A., see Paryjczak, T. (139) 349
- Krol, J.H., see Tjaden, U.R. (136) 233
- Krull, M., Kogerman, A., Kirret, O., Kutyna, L. and Zapolski, D.
Pyrolysis GC of capron (nylon-6) fibre stabilized with ethers of 4-oxydiphenylamine (135) 212
- Krummen, K. and Frei, R.W.
Separation of nonapeptides by reversed-phase HPLC (132) 27
- Krummen, K. and Frei, R.W.
Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429
- Kubín, M., see Vozka, S. (139) 225
- Kudirka, P.J., see Schroeder, R.R. (134) 83
- Kues, H.A. and Teague, C.E.
TLC of some cyanine dyes (135) 221
- Küllik, E., see Urbas, E. (137) 210
- Kunihiro, K., see Nakae, A. (134) 459
- Kunzelmann, P., see Husain, S. (137) 53
- Kuroda, R., Saito, T., Oguma, K. and Takemoto, M.
TLC behaviour of metals on DEAE-cellulose in oxalic acid and mixed oxalic acid-hydrochloric acid media (139) 355
- Kurtev, B.J., see Palamareva, M.D. (132) 61, (132) 73
- Kurtev, K.S., see Shopova, B.I. (132) 99
- Kutyna, L., see Krull, M. (135) 212
- Kuwahara, A., see Endo, T. (140) 263

Kuysten, J., see Poppe, H. (132) 369

L

- Lacoste, A.M., see Jensen, H. (132) 556
- Lafuma, F., see Lesec, J. (138) 89
- Laitem, L. and Gaspar, P.
GC determination of methylthiouracil residues in meat and organs of slaughtered animals (140) 266
- Lam, C.H., see Lie Ken Jie, M.S.F. (136) 178, (138) 373, (138) 446
- Lam, S., see Kikta, E.J. Jr. (138) 321
- Lamar, C. Jr. and Cantey, J.R.
Purification of α -fetoprotein from rat amniotic fluid by gel filtration (137) 471
- Lamparsky, D., see Klimes, I. (136) 13, (136) 23
- Land, G., see Bye, A. (139) 181
- Lanouette, M., see Carignan, G. (135) 523
- Lanzoni, J., see Frigerio, A. (134) 299
- Larsen, C., see Bundgaard, H. (132) 51
- Larson, R.A. and Rockwell, A.L.
GC identification of some chlorinated aromatic acids, chlorophenols, and their aromatic acid precursors (139) 186
- Larsson, K. and Samuelson, O.
Determination of the interstitial volume of ion-exchange columns (134) 191
- Larsson, K. and Samuelson, O.
Simultaneous separation of oligomeric sugars and oligomers with a terminal aldonic acid group on anion-exchange resins (134) 195
- Lasa, J., see Rosiek, J. (137) 245
- Latham, A.N., see Hill, R.E. (131) 341
- Laub, R.J., Purnell, J.H. and Williams, P.S.
Computer-assisted prediction of GC separations (134) 249
- Lauer, H.H., Poppe, H. and Huber, J.F.K.
Application of high-pressure GC with columns packed with small particles (132) 1
- Lawrence, J.F., Lewis, D.A. and McLeod, H.A.
Detection of carbofuran and metabolites directly or as their heptafluorobutryl derivatives using GLC or HPLC with different detectors (138) 143
- Lawrence, J.F., see Ryan, J.J. (135) 117
- Lazarevski, T., Tamburašev, Z. and Djokić, S.
Erythromycin series. V. Quantitative analysis of cladinose and methylcladinose by densitometry of thin-layer chromatograms (132) 309
- Le Parlouër, P., Boinon, B. and Vergnaud, J.-M.
GC with backflushing, with linear temperature programming in the first direction and a programmed longitudinal

- positive temperature gradient during the opposite direction of gas flow (133) 253
- LeBelle, M.J., see Vilim, A. (133) 239
- Leboda, R., Sokolowski, S., Rynkowski, J. and Paryjczak, T.
Chromatographic investigations of mixed catalysts (138) 309
- Leboda, R., see Sokolowski, S. (139) 237
- Lederer, M., see Casillo, M. (135) 256
- Lederer, M., see Sinibaldi, M. (133) 425
- Lee, T.D., see Flanagan, R.J. (137) 119
- Leenheer, A.P. de, see De Leenheer, A.P. (140) 293
- Leger, R.M., see Lynn, R.K. (131) 329
- Leggett, D.C.
Vapor pressure of 2,4,6-trinitrotoluene by a GC headspace technique (133) 83
- Lemar, M., Versaud, P. and Porthault, M.
Detection by IR spectrometry in HPLC (in French) (132) 295
- Lemmens, L.
Determination of dihydroxydianthrone by densitometry after TLC (132) 363
- Lennard, M.S., Silas, J.H., Smith, A.J. and Tucker, G.T.
Determination of debrisoquine and its 4-hydroxy metabolite in biological fluids by GC with flame-ionization and nitrogen-selective detection (133) 161
- Leone, R.M.
Styrylphenyl tetrazolium chloride as a location reagent for thiolsteroids on paper chromatograms (135) 527
- Lepri, L., Desideri, P.G. and Muzzarelli, R.A.A.
Chromatographic behaviour of nucleic acid constituents and of phenols on chitosan thin layers (139) 337
- Lesec, J., Lafuma, F. and Quivoron, C.
Recycle GPC separation of some acetal alcohol diastereoisomers representing partial polyglucosidic sequences (138) 89
- Levy-Benshimol, A., see Jain, R.S. (139) 283
- Lewis, D.A., see Lawrence, J.F. (138) 143
- Lhoest, G., see Bettencourt, A. (134) 323
- Licht, A., see Radhakrishnan, A.N. (132) 552
- Lichtenthaler, H.K. and Prenzel, U.
HPLC of natural prenylquinones (135) 493
- Lichwa, J., see Van Loon, J.C. (136) 301
- Lie Ken Jie, M.S.F.
Fatty acids. XIII. The GLC behaviour of dimethylene-interrupted methyl *cis*-octadecenoates (131) 239
- Lie Ken Jie, M.S.F. and Lam, C.H.
Fatty acids. XV. TLC behaviour of acetylenic fatty esters on silicic acid (136) 178
- Lie Ken Jie, M.S.F. and Lam, C.H.
Fatty acids. XVII. Chromatographic properties of all isomeric C₁₈ furan esters (138) 373
- Lie Ken Jie, M.S.F. and Lam, C.H.
Fatty acids. XVIII. GLC behaviour of unsaturated furan esters (138) 446
- Ligny, C.L. de, see De Ligny, C.L. (140) 149
- Limoni, B. and Schmuckler, G.
GPC of transition metal ions using Bio-Gels (135) 173
- Lin, E.T., Brater, D.C. and Benet, L.Z.
GLC determination of pseudoephedrine and norpseudoephedrine in human plasma and urine (140) 275
- Lin, K.-T.D.
Use of a low-salt, alkaline buffer in the elution of basic amino acids from a single-column amino acid analyzer (132) 160
- Locksley, H.D., see Clark, J. (134) 315
- Lodge, B.A., see Carignan, G. (135) 523
- Loh, A., see Zuleski, F.R. (132) 45
- Lohmüller, M., Heizmann, P. and Ballschmiter, K.
Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165
- Lombard, A., Tourn, M.L. and Buffa, M.
In situ reactions on silica gel thin layers in studies on plant oligosaccharides (134) 242
- Loo, T.L., see Benvenuto, J.A. (134) 219
- Loon, J.C. van, see Van Loon, J.C. (136) 301
- Loughran, E.D., see Yasuda, S.K. (137) 283
- Love, S.H.
Isoelectric focusing in cylinders of granulated gel (138) 25
- Lu, K., see Benvenuto, J.A. (134) 219
- Lubba, H., see Figge, K. (131) 317
- Lubkowitz, J.A., Glajch, J.L., Semonian, B.P. and Rogers, L.B.
Study of the nitrogen response mode of the thermionic rubidium silicate detector (133) 37
- Lubkowitz, J.A., see Hodgin, J.C. (135) 514
- Luckow, V. and Rüssel, H.A.
Mechanism of the reaction GC of phenylmercury(II) compounds (138) 381
- Luft, R., see Fellous, R. (133) 7, (136) 5, (140) 137, (140) 143
- Lull, J.M., see Brown, R.K. (131) 223
- Lund, J., see Bechgaard, E. (133) 147
- Lyngbye, J., see Ingemann Hansen, S. (134) 517
- Lynn, R.K., Leger, R.M., Gordon, W.P., Olsen, G.D. and Gerber, N.
New GC assay for the quantification of methadone. Application in human and animal studies (131) 329

M

- Maat, L., see Olieman, C. (133) 382
- Macák, J., see Buryan, P. (137) 425, (139) 69
- Macasieb, T., see Brooks, M.A. (135) 123
- Macdonald, I.A.
Detection of bile salts with Komarowsky's

- reagent and group specific dehydrogenases (136) 348
- MacDonald, R.C. and Rempas, S.P.
Dry CC of phospholipids (131) 157
- Macek, K., see Helm, R. (133) 390
- McGuirk, M. and Mainwaring, S.J.
Reversed two-dimensional technique for multiple separations of benzolapyrene from atmospheric aerosol samples (135) 241
- Machin, A.F., see Mundy, D.E. (139) 321
- McKeag, R.G. and Hougen, F.W.
Dynamic coating of glass capillaries with polar phases and Silanox (136) 308
- MacKenzie, S.L. and Hogge, L.R.
GC-MS of the N(O)-heptafluorobutryl isobutyl esters of the protein amino acids using electron impact ionisation (132) 485
- MacLean, W., see Yost, R. (134) 73
- McLennon, D.A., see Rao, G.S. (137) 231
- McLeod, H.A., see Lawrence, J.F. (138) 143
- McNair, H.M. and Stafford, D.T.
Micro-adsorption detector. I. Principles of operation and mechanism of response (133) 31
- McNair, H.M., see Berg, R.G. (131) 185
- McNeil, E.E., Otson, R., Miles, W.F. and Rajabalee, F.J.M.
Determination of chlorinated pesticides in potable water (132) 277
- Maehr, H., see Byrne, K.M. (131) 191
- Mage, R.G., see Ansari, A.A. (140) 98
- Maguire, K.P., see Norman, T.R. (134) 524
- Maile, R.J. Jr., Fischesser, G.J. and Anderson, M.M.
TLC separation of phosphonic acid derivatives (132) 366
- Mainwaring, S.J., see McGuirk, M. (135) 241
- Majewski, H. and Story, D.F.
PC separation of noradrenaline and its major metabolites (139) 218
- Malinar, M.J., see Čelap, M.B. (139) 45
- Mallet, V.N., see Berkane, K. (139) 386
- Mallet, V.N., see Zakrevsky, J.-G. (132) 315
- Malone, M.H., see Byrne, J.A. (137) 489
- Maleta, E., see Czerwiec, Z. (132) 168, (137) 228
- Mandrou, B., see Andary, C. (132) 525
- Marai, L., see Harris, W.S. (131) 437
- Marinić, Z., see Kozjak, B. (132) 323
- Marino, G., see Petrilli, P. (135) 511
- Marklová, E. and Hais, I.M.
Chromatographic behaviour of some indole acids on a Sephadex column in water and in the presence of salts (131) 205
- Marquez, J.A., see Byrne, K.M. (131) 191
- Marshall, J.J. and Humphreys, J.D.
Isolation of synthetic enzyme-dextran conjugates by chromatography on concanavalin A-Sepharose (137) 468
- Marshall, P.N.
TLC of Sudan dyes (136) 353
- Martens, F.K., Martens, M.A., Söylemzoglu, T. and Heyndrickx, A.M.
Significance of the rubidium bromide thermionic detector equipped with a gate electrode in the analysis of halogenated dithiocarbamate derivatives (140) 86
- Martens, L.J.H., see Ernst, G.F. (133) 245
- Martens, M.A., see Martens, F.K. (140) 86
- Martin, B.K., see Grove, J. (133) 267
- Martinelli, E.M., see Bombardelli, E. (139) 111
- Martinez, F., see Guillemin, C.L. (139) 259
- Masada, M., see Wu, H.-L. (137) 127
- Massarani, G., see Forni, G. (131) 444
- Massow, F. v. and Huber, D.
New thin-layer system for the identification of moderately polar to lipophilic boletus pigments (in German) (138) 232
- Mathur, D.S. and Saha, N.C.
Estimation of polarity of solids by GC (138) 33
- Matsui, M., see Kawabata, T. (140) 47
- Matysik, G., see Soczewiński, E. (132) 379, (137) 182
- Maynard, R., see Clark, J. (134) 315
- Meesschaert, B., Adriaens, P. and Eyssen, H.
GLC of methyl esters of natural penicillins (136) 162
- Meesschaert, B., see Adriaens, P. (140) 103
- Meffin, P.J., Harapat, S.R. and Harrison, D.C.
HPLC analysis of drugs in biological fluids. III. Analysis of disopyramide and its mono-N-dealkylated metabolite in plasma and urine (132) 503
- Meffin, P.J., Harapat, S.R., Yee, Y.-G. and Harrison, D.C.
HPLC analysis of drugs in biological fluids. V. Analysis of acebutolol and its major metabolite (138) 183
- Meffin, P.J., see Björnsson, T.D. (137) 145
- Mehta, B.J. and Krishnaswamy, N.
Preparation of optically active ion-exchange resins and resolution of racemates (135) 455
- Meier, B. and Sticher, O.
HPLC of iridoid and secoiridoid glucosides (138) 453
- Meier, K.D., see Tutschek, R. (139) 211
- Melcher, F.W., see Heckers, H. (135) 93, (136) 311
- Mercier, M., see Bettencourt, A. (134) 323
- Meyer, J.A., see Rouchaud, J. (139) 376
- Meyer, J.C., see Puglisi, C.V. (136) 391
- Meyers, C., see Issaq, H.J. (133) 291
- Miedziak, I., see Boček, P. (137) 83
- Mierzwa, S. and Witke, S.
GLC method with electron-capture detection for the determination of residues of some phenoxyacetic acid herbicides in water as their 2,2,2-trichloroethyl esters (136) 105
- Mikkers, F.E.P., see Verheggen, T.P.E.M. (132) 205
- Milano, M.J. and Grushka, E.
Diode array detector in LC. II. Enhanced sensitivity via first derivative (dA/dλ) chromatograms (133) 352
- Miles, W.F., see McNeil, E.E. (132) 277

- Milina, R.S., see Pankova, M.C. (137) 198
- Miller, J.J. and Oake, R.J.
GLC determination of niridazole in biological fluids (131) 442
- Miller, S.H., see Dvorchik, B.H. (135) 141
- Milley, J.
Isolation of natural surface-active materials of crude oils by adsorption chromatography (139) 135
- Milley, J., see Van den Berg, J.H.M. (132) 421
- Milonjić, S.K., see Kopečni, M.M. (139) 1
- Min, B.H. and Garland, W.A.
Determination of clonazepam and its 7-amino metabolite in plasma and blood by GC-chemical ionization MS (139) 121
- Minagawa, K., see Takeshita, R. (133) 303
- Minn, J., see Clarke, J.F.G. Jr. (134) 397
- Mitchard, M., see Rovei, V. (138) 391
- Miyazaki, H., Ishibashi, M. and Itoh, M.
Application of an ion-cluster technique to the analysis of endogenous hydroxylated compounds. I. Preparation of a doublet by use of a mixture of trimethylsilylimidazole (TSIM) and TSIM-d₃ (135) 109
- Miyazaki, H., Ishibashi, M., Itoh, M., Yamashita, K. and Nambara, T.
Use of silylating agents for the identification of hydroxylated steroids by GC and GC-MS. Discrimination between phenolic and alcoholic hydroxyl groups (133) 311
- Mladenov, I.T., see Shopova, B.I. (132) 99, (135) 473
- Mönch, W. and Dehnen, W.
HPLC of peptides (140) 260
- Montgomery, J.A., see Temple, C. Jr. (140) 114
- Moore, B., Nickless, G., Hallett, C. and Howard, A.G.
Analysis of nitrazepam and its metabolites by HPLC (137) 215
- Moreau, J.-P., see Arpino, P. (134) 433
- Morelis, P., see Blanchet, G. (135) 477
- Morfin, R.F., see Kerebel, A. (140) 229
- Morgan, E.D. and Tyler, R.C.
Microchemical methods for the identification of volatile pheromones (134) 174
- Morgan, E.D., see Burkinshaw, P.M. (132) 548
- Mori, S.
Comparison of chemically bonded and physically coated polyethylene glycol stationary phases in GC (135) 261
- Mori, Y., see Furukawa, H. (136) 428
- Moriguchi, S., Naito, K. and Takei, S.
Characterization of modified alumina as an adsorbent for GSC. Modification of alumina with alkali-metal fluorides (131) 19
- Moro, L., see Assandri, A. (135) 37
- Morris, C.J.O.R., see Davy, K.W.M. (136) 361
- Morselli, P.L., see Rovei, V. (138) 391
- Müller, O., see Winkler, E. (138) 151
- Müller, W.E.G., see Arendes, J. (140) 118
- Mundy, D.E. and Machin, A.F.
Determination of the rodenticide difenacoum in biological materials by HPLC with confirmation of identity by MS (139) 321
- Murphy, R.F., Conlon, J.M., Imam, A. and Kelly, G.J.C.
Comparison of non-biospecific effects in immunoaffinity chromatography using cyanogen bromide and bifunctional oxirane as immobilising agents (135) 427
- Murray, K.E.
Concentration of headspace, airborne and aqueous volatiles on Chromosorb 105 for examination by GC and GC-MS (135) 49
- Murray, S., see Draffan, G.H. (139) 311
- Musani-Marazović, L., see Kozjak, B. (132) 333
- Mustich, G., see Bombardelli, E. (139) 111
- Muto, G., see Nakae, A. (134) 459
- Muzika, K., see Williams, D.T. (136) 423
- Muzzarelli, R.A.A., see Lepri, L. (139) 337
- Myher, J.J., see Harris, W.S. (131) 437
- ## N
- Nachtmann, F. and Budna, K.W.
Sensitive determination of derivatized carbohydrates by HPLC (136) 279
- Nagai, H., see Deguchi, T. (133) 173
- Nair, B.M. and Appelqvist, L.-Å.
Automatic sample introduction system for GLC analysis of amino acids (133) 203
- Naito, K., see Moriguchi, S. (131) 19
- Nakae, A., Kunihiro, K. and Muto, G.
Separation of homologous alkylbenzylidimethylammonium chlorides and alkylpyridinium halides by HPLC (134) 459
- Nakamura, H.
TLC of histidine, histamine and histidyl peptides at picomole level using a unique fluorogenic reaction with fluorescamine (131) 215
- Nambara, T., see Miyazaki, H. (133) 311
- Nand, S., Desai, B.K. and Sarkar, M.K.
Chromatographic pulsed micro-reactor system for studying the kinetics of hydrocarbon conversions (133) 359
- Näslund, B., see Hartvig, P. (133) 367
- Navarro, J.G. and Cornwell, E.S.
Determination of paraoxon by combined bovine liver esterase inhibition and GLC (138) 423
- Nawrocki, J., see Szczepaniak, W. (138) 337
- Negrini, P., see Pantarotto, C. (131) 430
- Nekic, M., see Brown, R.K. (131) 223
- Nelis, H.J.C.F., see De Leenheer, A.P. (140) 293
- Neuhoff, V., see Osborne, N.N. (134) 489
- Neuzil, E., see Jensen, H. (132) 556

- Nicholas, A.W., see Gustafson, M.E. (137) 465
 Nickla, H., see Brown, R. (133) 423
 Nickless, G., see John, E.D. (138) 399
 Nickless, G., see Moore, B. (137) 215
 Nitsche, I., see Slemrova, J. (135) 401
 Nolte, R.F., see Specht, S. (135) 273
 Norman, P.W. and Fells, I.
 Automatic data collection and analysis
 using an FM tape recorder (132) 533
 Norman, T.R., Maguire, K.P. and Burrows, G.D.
 Determination of therapeutic levels of
 butriptyline in plasma by GLC (134) 524
 Notman, H., see Cashion, P. (136) 159
 Notman, H.J., see Cashion, P.J. (135) 189
 Novák, J., Bleha, M., Votavová, E. and
 Čoupek, J.
 Investigation of the reaction of
 epichlorohydrin with 1-butanol by gel
 chromatography (139) 141
 Novák, J. and Horáková, J.
 GC identification of butyl 3-chloro-2-
 hydroxypropyl ethers and butyl glycidyl
 ethers (in German) (131) 303
 Novák, J. and Janák, J.
 Properties of the flow-impedance bridge
 detector (138) 1
 Novák, J., see Drozd, J. (136) 37
 Novák, J., see Nováková, N. (135) 13
 Nováková, N. and Novák, J.
 Measurement of heats of vaporization by
 means of a gas chromatograph (135) 13
 Novotny, M., see Bartle, K.D. (135) 351

O

- Oake, R.J., see Miller, J.J. (131) 442
 O'Grady, R., see Williams, D.T. (136) 423
 Oguma, K., see Kuroda, R. (139) 355
 Ogundipe, C.O.E., see Vernon, F. (132) 181
 Ohashi, S., see Yoza, N. (134) 497
 Ohshima, H., see Kawabata, T. (140) 47
 Ohta, T., see Kiuchi, K. (133) 226
 Olieman, C., Maat, L., Waliszewski, K. and
 Beyerman, H.C.
 Chemistry of opium alkaloids. VIII.
 Separation of opium alkaloids and related
 compounds by ion-pair HPLC (133) 382
 Olsen, G.D., see Lynn, R.K. (131) 329
 Onley, J.H., see Roscher, N.M. (140) 109
 Oomen-Meulemans, E.P.M., see Tjaden, U.R.
 (136) 233
 Oriente, G., see Amico, V. (131) 233
 Oruezabal, C., see Arpino, P. (134) 433
 Osa, A., Arukaevu, H. and Aaviksaar, A.
 Preparative purification of alkyl
 methylphosphonic acid *p*-nitrophenyl esters
 on Sephadex LH-20 (135) 196
 Osborne, N.N. and Neuhoff, V.
 Preliminary study of the use of dansyl
 chloride to determine cyclic-3',5'-AMP in
 tissues (134) 489
 Ossicini, L., see Casillo, M. (135) 256
 Ostrach, S.
 Convection in continuous-flow
 electrophoresis (140) 187
 Otson, R., see McNeil, E.E. (132) 277
 Otsuki, A.
 Reversed-phase adsorption of phthalate
 esters from aqueous solutions and their
 gradient elution using a high-performance
 liquid chromatograph (133) 402
 Otter, G.E. and Taylor, L.
 Development of a bonded weak anion-
 exchange packing suitable for the HPLC of
 hop resins (133) 97
 Ovodov, Y.S., see Burtseva, T.I. (131) 464

P

- Paasivirta, J., see Sattar, M.A. (135) 395,
 (136) 379
 Pacifici, G.M. and Placidi, G.F.
 Rapid and sensitive electron-capture GC
 method for the determination of pinazepam
 and its metabolites in human plasma, urine
 and milk (135) 133
 Pählman, S., Rosengren, J. and Hjertén, S.
 Hydrophobic interaction chromatography
 on uncharged Sepharose derivatives.
 Effects of neutral salts on the adsorption of
 proteins (131) 99
 Palamareva, M.D. and Kurtev, B.J.
 Chromatographic behaviour of
 diastereomers. II. TLC behaviour of
 diastereomeric 1,2-disubstituted 1,2-
 diarylethanes (132) 61
 Palamareva, M.D., Kurtev, B.J. and
 Haimova, M.A.
 Chromatographic behaviour of
 diastereomers. III. TLC behaviour of
 diastereomeric 4-substituted 6,7-dialkoxy-3-
 aryl-tetrahydroisoquinolines and -
 isochromans (132) 73
 Palmerini, C.A., see Floridi, A. (138) 203
 Palmiskog, G. and Hultman, E.
 Determination of (*d,l*)-6-chloro-*a*-
 methylcarbazole-2-acetic acid in plasma by
 HPLC (140) 310
 Pankova, M.C., Milina, R.S., Belcheva, R.P. and
 Ivanov, A.S.
 GC separation and identification of bicyclic
 aromatic hydrocarbons in kerosene (b.p.
 200-280°) (137) 198

- Pantarotto, C., Cappellini, L., De Pascale, A. and Frigerio, A. Epoxide-diol pathway in the metabolism of 5H-dibenzofl,azepine (iminostilbene) (134) 307
- Pantarotto, C., Cappellini, L., Negrini, P. and Frigerio, A. "Epoxide-diol" metabolic pathway of 5H-dibenzofl,cycloheptene in the rat. Studies by GC and MS (131) 430
- Pantarotto, C., see Frigerio, A. (134) 299
- Papazova, D. and Dimov, N. Qualitative GC analysis and determination of solute properties. Study of the relationship between the molecular structure and GC retention of alkenes on squalane (137) 259
- Papazova, D., see Dimov, N. (137) 265
- Pape, B.E. and Ribick, M.A. Analysis of medazepam, diazepam, and metabolites in plasma by GLC with electrolytic conductivity detection (136) 127
- Pape, B.E., Rodgers, D.H. and Flynn, T.C. Electrolytic conductivity detector as an element-selective GC detector (134) 1
- Papin, J.-P. and Udiman, M. TLC of the principal ketoses (in French) (132) 339
- Papo, A., see Alessi, P. (131) 31, (133) 190
- Parande, M.G., see Choudhary, V.R. (132) 344
- Park, K., see Casagrande, D.J. (135) 208
- Parkhouse, J., see Cole, W.J. (136) 409
- Parlouer, P. le, see Le Parlouer, P. (133) 253
- Parris, N.A. LC separation of bile acids (133) 273
- Paryjczak, T., Rynkowski, J. and Król, A. GC investigations of the system tricobalt tetroxide-hydrogen (139) 349
- Paryjczak, T., see Leboda, R. (138) 309
- Pascale, A. de, see De Pascale, A. (134) 307
- Patsalides, E., see Dilli, S. (134) 477
- Patterson, P.L. Pulse-modulated electron capture detection with nitrogen carrier gas (134) 25
- Patzer, E.M. and Hilker, D.M. New reagent for vitamin B₆ derivative formation in GC (135) 489
- Paul, D., see Singh, H. (137) 202
- Pchelkin, V.P., see Zhukov, A.V. (132) 543
- Pearce, R.J. Amino acid analysis by GLC of N-heptafluorobutyl isobutyl esters. Complete resolution using a support-coated open-tubular capillary column (136) 113
- Peat, M.A., see Sengupta, A. (137) 206
- Pechová, H., see Churáček, J. (139) 85
- Peeters, H., see Uyttendaele, K. (132) 261
- Peleran, J.C., see Wal, J.M. (136) 165
- Perkins, E.G., see Sharma, J.P. (134) 441
- Petek, F., see Doly, J. (137) 69
- Peterson, A.J., see Fairclough, R.J. (133) 412
- Petrilli, P., Sannia, G. and Marino, G. Isoelectric chromatography: a new approach in the use of ion exchangers for protein purification (135) 511
- Peters, I., see Garle, M. (140) 165
- Picard, J., see Blanchet, G. (135) 477
- Picart, D., see Kerebel, A. (140) 229
- Pieterse, C., see Ernst, G.F. (133) 245
- Pillai, D.N., see Dilli, S. (137) 111
- Piper, L.J., see Fasco, M.J. (131) 365
- Placidi, G.F., see Pacifici, G.M. (135) 133
- Platt, S.G. and Bassham, J.A. Separation of ¹⁴C-labeled glycolate pathway metabolites from higher plant photosynthate (133) 396
- Plomp, T.A., see Van den Berg, J.H.M. (138) 431
- Podkowińska, H. and Urbańska, K. Influence of alkali metal salts on the migration of quaternary ammonium compounds on silica gel layers (137) 485
- Pohlmann, J.L.W. and Cohan, S.L. Simplified detection of quaternary ammonium compounds by GC (131) 297
- Poitrenaud, C. Partition of metallic elements between a cation-exchanger swollen with water and a solution of metallic chelates in a water-immiscible solvent. I. Dependence of the distribution coefficient on the nature and the concentration of the chelating agent (in French) (133) 15
- Poitrenaud, C., see Doury-Berthod, M. (131) 73
- Pokorný, S., see Janča, J. (134) 273
- Polkowska-Motrenko, H., see Dybczyński, R. (134) 285
- Pollak, V. Fluorescence photometry of thin-layer chromatograms and electropherograms (133) 49
- Pollak, V. Effect of non-uniform concentration distribution with depth upon quantitative optical analysis of chromatograms (133) 195
- Pollak, V. Sensitivity and the dimensions of the separating medium in TLC (133) 199
- Poole, C.F., Evans, N.J. and Wibberley, D.G. Determination of selenium in biological samples by GLC with electron-capture detection (136) 73
- Poole, C.F. and Wibberley, D.G. Determination of di-(2-ethylhexyl)phthalate in human placenta (132) 511
- Poole, C.F., see Burkinshaw, P.M. (132) 548
- Popl, M., see Břizová, E. (139) 15
- Popl, M., see Čoupek, J. (133) 91
- Poppe, H. and Kuysten, J. Construction and evaluation of a thermostatted permittivity detector for column HPLC (132) 369
- Poppe, H., see Lauer, H.H. (132) 1
- Porath, J. and Dahlgren Caldwell, K. Charge-transfer adsorption chromatography (133) 180
- Portanova, J.P. and Shrift, A. Usefulness of N-ethylmaleimide in the

- identification of ^{75}Se -labeled selenocysteine (139) 391
- Porthault, M., see Lemar, M. (132) 295
- Pospisil, P., see Kolb, B. (134) 65
- Post, D.
Location of TLC spots using UV light and tracing paper (132) 130
- Potin, M., see Grenier-Loustalot, M.F. (138) 63
- Pour, J., see Franc, J. (131) 285, (131) 291
- Pretz, W., see Bührens, K.-G. (139) 291
- Prenzel, U., see Lichtenthaler, H.K. (135) 493
- Pretorius, V., see Schieke, J.D. (132) 217, (132) 223, (132) 231
- Pritchard, D.G. and Todd, C.W.
GC of methyl glycosides as their trimethylsilyl ethers. The methanolysis and re-N-acetylation steps (133) 133
- Privat, G., see Andary, C. (132) 525
- Pu, H.H. and Hicks, S.Z. Jr.
Determination of vinyl chloride monomer by GC (132) 495
- Pučar, Z., see Kozjak, B. (132) 323
- Pudil, F., see Davidek, J. (140) 316
- Puglisi, C.V., Meyer, J.C. and De Silva, J.A.F.
Determination of the anti-inflammatory agent carprofen, (D,L)-6-chloro- α -methylcarbazole-2-acetic acid, in blood by HPLC (136) 391
- Purnell, J.H., see Laub, R.J. (134) 249
- Q**
- Quivoron, C., see Lesec, J. (138) 89
- R**
- Raaijmakers, J.G.A.M.
System for the identification of novel prostaglandins (138) 355
- Rabine, J.-P., see Fellous, R. (133) 7, (136) 5, (140) 137, (140) 143
- Rabjohns, M.A., see Fairclough, R.J. (133) 412
- Radhakrishnan, A.N., Stein, S., Licht, A., Gruber, K.A. and Udenfriend, S.
High-efficiency cation-exchange chromatography of polypeptides and polyamines in the nanomole range (132) 552
- Radivojša, P.N., see Čelap, M.B. (139) 45
- Radziuk, B., see Van Loon, J.C. (136) 301
- Ragazzi, E. and Veronese, G.
Simple method for the quantitative analysis of tetracyclines by direct fluorimetry after TLC on cellulose plates (132) 105
- Ragazzi, E. and Veronese, G.
Gel chromatography of tetracycline antibiotics (134) 223
- Rahn, W., see König, W.A. (133) 141
- Rajabalee, F.J.M., see McNeil, E.E. (132) 277
- Ram, J., see Singh, H. (137) 202
- Rao, G.S. and McLennon, D.A.
TLC analysis of phenytoin and its hydroxy metabolites (137) 231
- Rasmussen, K.E., see Christophersen, A.S. (132) 91
- Reese, C.E., see Scott, R.P.W. (138) 283
- Reeve, D.R. and Crozier, A.
Radioactivity monitor for HPLC (137) 271
- Regnier, F.E., see Schlabach, T.D. (134) 91
- Reichert, U., see Seipel, S. (135) 485
- Reid, T.W., see Darling, T. (131) 383
- Rejthar, L. and Tesařík, K.
Performance characteristics of a system containing a capillary column and an electron-capture detector (131) 404
- Rempas, S.P., see MacDonald, R.C. (131) 157
- Rempt-van Dijk, E.M., see Faber, D.B. (133) 319
- Rhys Williams, A.T., see Slavin, W. (134) 121
- Ribick, M.A., see Pape, B.E. (136) 127
- Rice, L.I., Spolter, L. and Allen, C.F.
Preparation and TLC of sulfate conjugates of the component oligomers of Triton X-100 (137) 397
- Richardson, L., see Bailey, E. (131) 347
- Richter, W.J., see Blum, W. (132) 249
- Righetti, P.G.
Distribution of carrier ampholytes in isoelectric focusing (138) 213
- Righetti, P.G., Balzarini, L., Gianazza, E. and Brenna, O.
Itaconic acid carrier ampholytes for isoelectric focusing (134) 279
- Righetti, P.G., Gianazza, E., Brenna, O. and Galante, E.
Isoelectric focusing as a puzzle (137) 171
- Rijks, J.A., see Soják, L. (135) 71, (138) 119
- Riley, C.M., see Bristow, P.A. (131) 57
- Rittich, B., Šimek, M. and Čoupek, J.
Separation of naphthoquinones and lipophilic vitamins by gel chromatography and TLC (133) 345
- Robards, K., see Dilli, S. (133) 363
- Roberfroid, M., see Bettencourt, A. (134) 323
- Robert, J., see Zanetta, J.-P. (137) 481
- Robinson, J.R., see Chapman, R.A. (140) 209
- Robinson, R.J., see Bartle, K.D. (135) 351
- Rockwell, A.L., see Larson, R.A. (139) 186
- Rodgers, D.H., see Pape, B.E. (134) 1
- Rodríguez de Turco, E.B. and Bazán, N.G.
Simple preparative and analytical TLC method for the rapid isolation of phosphatidic acid from tissue lipid extracts (137) 194
- Rogers, I.T., see Gerhardt, K.O. (135) 341

- Rogers, L.B., see Hodgkin, J.C. (135) 514
 Rogers, L.B., see Lubkowitz, J.A. (133) 37
 Rogozhin, S.V., see Semechkin, A.V. (131) 65
 Rohrbach, P., see Chevalier, G. (138) 193
 Rokushika, S., see Karasek, F.W. (135) 329
 Roode, D. de, see De Roode, D. (137) 333
 Rooy, J.F.M. de, see De Rooy, J.F.M. (131) 169
 Rosazza, J.P., see Gustafson, M.E. (137) 465
 Roscher, N.M. and Onley, J.H.
 TLC analysis of oxo and thio compounds (140) 109
 Rose, L.M. and Brockman, R.W.
 Analysis by HPLC of 9- β -D-arabinofuranosyladenine 5'-triphosphate levels in murine leukemia cells (133) 335
 Rosengren, J., see Pählman, S. (131) 99
 Rosiek, J., Śliwka, I. and Lasa, J.
 Destructive and non-destructive models of the coulometric electron-capture detector (137) 245
 Ross, G., see Froehlich, P.M. (137) 135
 Ross, M.S.F.
 Chromatographic analysis of azapropazone and related benzotriazines (131) 448
 Ross, M.S.F.
 Determination of metformin in biological fluids by derivatization followed by HPLC (133) 408
 Rossi, E., see Frigerio, A. (134) 299
 Rossi, M. and Rübnsamen, K.
 Determination of prothionamide and its sulphoxide metabolite in physiological fluids by quantitative TLC (132) 562
 Rouchaud, J., Decallonne, J.R. and Meyer, J.A.
 TLC measurement of low activities of tritiated substances mixed with non-radioactive quenching plant pigments (139) 376
 Rovei, V., Mitchard, M. and Morselli, P.L.
 Simple, sensitive and specific GC method for the quantification of diltiazem in human body fluids (138) 391
 Rovei, V., see Frigerio, A. (134) 299
 Rubi, J.A.M., see Carreño, T.G. (133) 184
 Rübnsamen, K., see Rossi, M. (132) 562
 Rüchel, R.
 Two-dimensional micro-separation technique for proteins and peptides, combining isoelectric focusing and gel gradient electrophoresis (132) 451
 Rucker, G. and Taha, A.
 Use of π -acceptors for detection of alkaloids on thin layers (132) 165
 Rudziński, W., see Wojciechowski, B.W. (137) 1
 Rüssel, H.A., see Luckow, V. (138) 381
 Russell, J.W. and Shadoff, L.A.
 Sampling and determination of halocarbons in ambient air using concentration on porous polymer (134) 375
 Russell, P., see Darling, T. (131) 383
 Rustamov, M.I., see Arustamova, L.G. (140) 319
 Rutherford, D.M.
 Rapid micro-method for the measurement of diazepam and desmethyldiazepam in blood plasma by GLC (137) 439
 Ruttner, O., see Jarc, H. (134) 351
 Ruwe, H.J.J.M. de, see De Ruwe, H.J.J.M. (138) 431
 Ryan, J.J. and Lawrence, J.F.
 Comparison of electron-capture and electrolytic conductivity detection for the GLC analysis of some perfluoro derivatives of four agricultural chemicals (135) 117
 Ryan, T.R., see Hastings Vogt, C.R. (134) 451
 Ryan, T.R., see Vogt, C.R. (136) 221
 Rynkowski, J., see Leboda, R. (138) 309
 Rynkowski, J., see Paryjczak, T. (139) 349
- ## S
- Saha, N.C., see Mathur, D.S. (138) 33
 Saigal, R., see Chawla, H.M. (138) 243
 Saito, T., see Kuroda, R. (139) 355
 Saitoh, K., see Suzuki, N. (138) 79
 Salas, C.E. and Sellinger, O.Z.
 Rapid, quantitative separation by HPLC of methylated bases in transfer RNA (133) 231
 Salemink, C.A., see Kettenes-van den Bosch, J.J. (131) 422
 Salvesen, B., see Christophersen, A.S. (132) 91
 Samuelson, O., see Ericsson, T. (134) 337
 Samuelson, O., see Larsson, K. (134) 191, (134) 195
 Sannia, G., see Petrilli, P. (135) 511
 Sargent, M., see Hoodless, R.A. (136) 199
 Sarić, S., see Čelap, M.B. (139) 45
 Sarkar, M.K., see Nand, S. (133) 359
 Sathe, G., see Cashion, P. (136) 159
 Sathe, G.M., see Cashion, P.J. (135) 189
 Sattar, M.A., Paasivirta, J., Vesterinen, R. and Knuutinen, J.
 TLC of chlorinated catechols (135) 395
 Sattar, M.A., Paasivirta, J., Vesterinen, R. and Knuutinen, J.
 TLC of chlorinated cresols (136) 379
 Sauter, A.M. and Von Wartburg, J.P.
 Quantitative analysis of disulfiram and its metabolites in human blood by GLC (133) 167
 Schaden, G.
 Short-time pyrolysis and spectroscopy of unstable compounds. V. Improvement in Curie-point pyrolysis GC (136) 420
 Schaffner, C.P., see Byrne, K.M. (131) 191
 Schauwecker, P., Frei, R.W. and Erni, F.
 Trace enrichment techniques in reversed-phase HPLC (136) 63
 Schepartz, A.I., see Severson, R.F. (139) 269

- Schieke, J.D. and Pretorius, V.
Whisker-walled open-tubular glass columns in GC. I. Deactivation (132) 217
- Schieke, J.D. and Pretorius, V.
Whisker-walled open-tubular glass columns in GC. II. Chromatographic performance (132) 223
- Schieke, J.D. and Pretorius, V.
Whisker-walled open-tubular glass columns in GC. III. Applications (132) 231
- Schildknecht, H., see Husain, S. (137) 53
- Schirmeister, H.
Fast and sensitive thermal conductivity detector for use with capillary columns (in German) (137) 13
- Schlabach, T.D., Chang, S.H., Gooding, K.M. and Regnier, F.E.
Continuous-flow enzyme detector for LC (134) 91
- Schloeder, U., see Heckers, H. (136) 311
- Schlottzauer, P.F., see Severson, R.F. (139) 269
- Schmid, R. and Karobath, M.
Specific and sensitive method for the determination of γ -aminobutyric acid using GC with electron-capture or mass fragmentographic detection (139) 101
- Schmidt, D.G., see Singer, G.M. (133) 59
- Schmuckler, G., see Limoni, B. (135) 173
- Schneider, H.G. and Glazko, A.J.
HPLC of adenine and hypoxanthine arabinosides (139) 370
- Scholfield, C.R., see Eskins, K. (135) 217
- Schroeder, R.R., Kudirka, P.J. and Toren, E.C. Jr.
Enzyme-selective detector systems for HPLC (134) 83
- Schwarzenbach, R.
Separation of some polyhydric alcohols by HPLC (140) 304
- Schwertner, H., see Wallace, J.E. (138) 111
- Scott, R.P.W. and Reese, C.E.
Precision of contemporary LC measurements (138) 283
- Sedvall, G., see Beck, O. (134) 407
- Seibert, G., see Breter, H.-J. (140) 251
- Seifert, B.
Stability of benzo(a)pyrene on silica gel plates for HPTLC (131) 417
- Seifert, J., see Davidek, J. (140) 316
- Seiler, N. and Knöden, B.
Chromatography of Dns derivatives on pre-coated HPTLC plates (131) 109
- Seipel, S. and Reichert, U.
Two-dimensional TLC-autoradiography of intracellular purine interconversion products (135) 485
- Seita, T., see Kato, Y. (134) 204
- Seitz, W.R., see Curtis, T.G. (134) 343, (134) 513
- Selim, S.
Separation and quantitative determination of traces of carbonyl compounds as their 2,4-dinitrophenylhydrazones by HPLC (136) 271
- Sellinger, O.Z., see Salas, C.E. (133) 231
- Semechkin, A.V., Rogozhin, S.V. and Davankov, V.A.
Ligand-exchange chromatography of racemates. IV. Influence of stationary-complex structure on the mechanism of ligand exchange (131) 65
- Semenza, G., see Assandri, A. (135) 25
- Semonian, B.P., see Lubkowitz, J.A. (133) 37
- Sengupta, A. and Peat, M.A.
GLC of eight anticonvulsant drugs in plasma (137) 206
- Sennello, L.T., see Chu, S.-Y. (137) 343
- Ševčík, J.
Accurate calculation of adjusted retention time. I (135) 183
- Severson, R.F., Ellington, J.J., Schlottzauer, P.F., Arrendale, R.F. and Schepartz, A.I.
GC method for the determination of free and total solanesol in tobacco (139) 269
- Seweryniak, M., see Sokolowski, S. (139) 237
- Sexton, S.A., see Kelsey, M.I. (133) 327
- Seymour, M.D., see Fischesser, G.J. (135) 165
- Shabana, R.M., see Dybczyński, R. (134) 285
- Shadoff, L.A., see Russell, J.W. (134) 375
- Shaikh, B., see Janini, G.M. (132) 136
- Sharma, I.C., see Tewari, S.N. (131) 275
- Sharma, J.P., Perkins, E.G. and Bevil, R.F.
Reversed-phase HPLC determination of tetracyclines in urine and plasma (134) 441
- Sheehan, M. and Haythorn, P.
Combined TLC and GLC identification of tricyclic antidepressants in urine (132) 237
- Sherma, J. and Bloomer, K.
Separation, detection and densitometric determination of chlorinated insecticides on silica gel and aluminum hydroxide papers (135) 235
- Shibukawa, M., see Suzuki, N. (138) 79
- Shimizu, A., see Kato, Y. (134) 204
- Shimoishi, Y.
Some 1,2-diaminobenzene derivatives as reagents for GC determination of selenium with an electron-capture detector (136) 85
- Shopova, B.I. and Mladenov, I.T.
Elution behaviour of some derivatives of 2-phenyl-2-(4-hydroxyphenyl)propane on Sephadex LH-20 with acetone and 1,4-dioxan as eluents (135) 473
- Shopova, B.I., Mladenov, I.T. and Kurtev, K.S.
Elution behaviour of some derivatives of 2-(4-hydroxyphenyl)-2-phenylpropane on Sephadex LH-20 in methanol and N,N-dimethylformamide (132) 99
- Shortnacy, A.T., see Temple, C. Jr. (140) 114
- Shrift, A., see Portanova, J.P. (139) 391
- Shu, C.-K., see Yoshida, T. (137) 461
- Sievers, G. and Hynninen, P.H.
TLC of chlorophylls and their derivatives on cellulose layers (134) 359
- Sievers, R.E., see Chen, T.M. (134) 170
- Silas, J.H., see Lennard, M.S. (133) 161
- Silva, J.A.F. de, see De Silva, J.A.F. (136) 391
- Simek, M., see Rittich, B. (133) 345

- Simon, R.L., see Heck, H.d'A. (133) 281
- Singer, G.M., Singer, S.S. and Schmidt, D.G.
Nitrosamide-specific detector for use with HPLC (133) 59
- Singer, S.S., see Singer, G.M. (133) 59
- Singh, H., Paul, D., Bhardwaj, T.R., Bhutani, K.K. and Ram, J.
Steroids and related studies. XL. TLC of some steroidal ketones, oximes and lactams (137) 202
- Singleton, V.L., Timberlake, C.F. and Whiting, G.C.
Chromatography of natural phenolic cinnamate derivatives on Sephadex LH-20 and G-25 (140) 120
- Sinibaldi, M. and Lederer, M.
Formation of polymeric species by reaction of cobalt(III) complexes with ammonium sulphide (133) 425
- Siouffi, A.M., Guillemonat, A. and Guiochon, G.
Attempt to use HPTLC data for prediction of HPLC retention coefficients (in French) (137) 35
- Sissons, D.J., see Telling, G.M. (137) 405
- Skrdlant, H., see Wallace, J.E. (138) 111
- Slack, J.A., see Irwin, W.J. (139) 364
- Slavin, W., Rhys Williams, A.T. and Adams, R.F.
Fluorescence detector for HPLC (134) 121
- Sleman, H.K., see Brown, N.D. (138) 449, (140) 300
- Slemrova, J. and Nitsche, I.
GC-MS identification of urea derivatives formed by the reaction of amines with isocyanates (in German) (135) 401
- Śliwka, I., see Rosiek, J. (137) 245
- Slump, P.
Determination of lysinoalanine with an automatic amino-acid analyzer (135) 502
- Słonka, T., see Sokołowski, S. (139) 237
- Smith, A.G., see Edmonds, C.G. (133) 372
- Smith, A.J., see Lennard, M.S. (133) 161
- Smith, B.E.F., see Callmer, K. (136) 45
- Smith, C.M., see Timbrell, J.A. (138) 165
- Smith, D.H., see Burgett, C.A. (134) 57
- Smith, H. and Thorpe, J.W.
Estimation of chlorbutanol by electron capture GC (134) 178
- Smith, K.M., Johnson, R.N. and Kho, B.T.
Determination of hydralazine in tablets by GC (137) 431
- Smith, R.J., see Haken, J.K. (133) 1
- Smith, R.V., see Baaske, D.M. (140) 57
- Smith, S.C. and Gage, L.D.
LC of dinitro-*p*-xylenes (131) 425
- Smrž, M., see Borák, J. (133) 127
- Snoeyink, V.L., see Wood, N.F. (132) 405
- Soczewiński, E.
Simple device for continuous TLC (138) 443
- Soczewiński, E., Dzido, T., Gołkiewicz, W. and Gazda, K.
Comparison of HPLC and TLC data obtained with various types of silica (131) 408
- Soczewiński, E., Matysik, G. and Dumkiewicz, W.
Investigations of the relationship between molecular structure and chromatographic parameters. X. Extraction of organic solutes with mixtures of chloroform and electron-donor solvents (132) 379
- Soczewiński, E., Matysik, G. and Grodzińska-Zachwieja, Z.
Selective liquid-liquid partition systems for the chromatographic analysis of some coumarins and phenolic acids (derivatives of cinnamic acid) (137) 182
- Soják, L., Janák, J. and Rijks, J.A.
Capillary GC of alkylbenzenes. II. Correlations between the structures and methylene group increments and differences in retention indices of isomers (135) 71
- Soják, L., Janák, J. and Rijks, J.A.
Capillary GC of alkylbenzenes. III. Correlations between the temperature and pressure coefficients of the retention index and structure (138) 119
- Sokoloski, T., see Burce, G.L. (137) 323
- Sokołowski, S., Leboda, R., Słonka, T. and Seweryniak, M.
Cluster expansion for retention volume in adsorption GC. Adsorption of hydrocarbons on graphite (139) 237
- Sokołowski, S., see Leboda, R. (138) 309
- Sollenberg, J. and Baldesten, A.
Isotachophoretic analysis of mandelic acid, phenylglyoxylic acid, hippuric acid and methylhippuric acid in urine after occupational exposure to styrene, toluene and/or xylene (132) 469
- Solomonraj, G., see Wong, L.T. (135) 149
- Sondack, D.L. and Koch, W.L.
Analysis of urinary tract antibacterial agents in pharmaceutical dosage form by HPLC (132) 352
- Souter, R.W.
HPLC resolution of propoxyphene carbinol diastereomers (134) 187
- Souter, R.W. and Bishara, R.H.
Quantitative GC analysis on support-coated open tubular capillary columns. I. Analysis of isomeric ethylphenols (140) 245
- Söylemezoglu, T., see Martens, F.K. (140) 86
- Spannbrucker, N., see Eichelbaum, M. (140) 288
- Specht, S., Nolte, R.F. and Born, H.-J.
Influence of the geometry of support materials on the capacity of an extraction chromatographic system. III. Influence of the exchange kinetics and the flow inhomogeneities on the height equivalent to a theoretical plate (in German) (135) 273
- Spillane, W.J., see Benson, G.A. (136) 318
- Spitz, H.D.
Analysis of trace amounts of acetylsalicylic anhydride in acetylsalicylic acid (140) 131
- Spolter, L., see Rice, L.I. (137) 397
- Stafford, D.T., see McNair, H.M. (133) 31

- Stancher, B., Tunis, F. and Favretto, L.
Chromatographic studies on the extraction of polyoxyethylene alkylphenyl ether non-ionic surfactants from water at trace levels (131) 309
- Stange, A.E., see Kikta, E.J. Jr. (138) 41, (138) 321
- Stauffer, S.C., see Hucker, H.B. (131) 357, (138) 437
- Steele, P., see Hayes, W.P. (139) 395
- Stefanovich, V., see Fisher, A.C. (137) 240
- Stein, S., see Radhakrishnan, A.N. (132) 552
- Steinbach, H. and Gielen, W.
GC determination of hexobarbital and its metabolites from biological material (in German) (139) 191
- Sternson, L.A. and DeWitte, W.J.
HPLC analysis of aniline and its metabolites (137) 305
- Sternson, L.A. and DeWitte, W.J.
HPLC analysis of isomeric aminophenols with electrochemical detection (138) 229
- Stewart, M.J., see Watson, I.D. (132) 155, (134) 182
- Sticher, O., see Meier, B. (138) 453
- Stockwell, P., see Bailey, G. (133) 386
- Story, D.F., see Majewski, H. (139) 218
- Stoveken, J., see Yost, R. (134) 73
- Strauss, P.A., Hertel, R.H.
Microcomputer-directed mass spectrometer as a compound-selective detector for GC (134) 39
- Štrop, P., Bašnák, I. and Farkaš, J.
Separation of alkyl derivatives of uracil by solvophobic adsorption chromatography on Spheron (138) 47
- Stubba, W., see Tutschek, R. (139) 211
- Stumm, C., see Gribnau, T.C.J. (132) 519
- Stünzi, W., see Klimes, I. (136) 13, (136) 23
- Subbiah, M.T.R., see Harris, W.S. (131) 437
- Sultanov, N.T., see Arustamova, L.G. (140) 319
- Sunshine, I., see Kelly, R.C. (138) 413
- Suprynowicz, Z., Gawdzik, J. and Jaroniec, M.
Some remarks on the characterization of GSC systems (133) 349
- Suprynowicz, Z., see Gawdzik, J. (131) 7
- Suttnar, J., Hrkal, Z. and Vodrážka, Z.
Affinity chromatography of serum haemopexin (131) 453
- Suzuki, N., Saitoh, K. and Shibukawa, M.
Gel chromatography of β -diketones and their metal complexes. VI. Elution behaviour of various β -diketones and their chromium(III) chelates on different gels (138) 79
- Švob, V. and Deur-Šiftar, D.
Comparison of degradation products and processes in MS and pyrolysis GC applied to the identification of alkylbenzenes (135) 85
- Swanbeck, G., see Ehrsson, H. (140) 157
- Sweeny, J.G., see Wilkinson, M. (132) 349
- Szczepaniak, W. and Nawrocki, J.
Coordination polymers as adsorbents and

stationary phases in GC. I.

Polychromium(III) diphenylphosphinate (138) 337

Szyszk, J., see Dilli, S. (132) 148

T

- Tadrus, R., see Kaistha, K.K. (135) 385
- Taha, A., see Rücker, G. (132) 165
- Takabataše, E., see Takeshita, R. (133) 303
- Takahashi, D.M.
Reversed-phase HPLC analytical system for aflatoxins in wines with fluorescence detection (131) 147
- Takei, S., see Moriguchi, S. (131) 19
- Takemoto, M., see Kuroda, R. (139) 355
- Takeshita, R., Takabatake, E., Minagawa, K. and Takizawa, Y.
Micro-determination of total phthalate esters in biological samples by GLC (133) 303
- Takeuchi, Y., see Furukawa, H. (136) 428
- Takizawa, Y., see Takeshita, R. (133) 303
- Tamburašev, Z., see Kobrehel, G. (133) 415
- Tamburašev, Z., see Lazarevski, T. (132) 309
- Tamura, Z., see Imai, K. (137) 357
- Tan, Y.L.
Microdetermination of nitrate by GC-MS technique with multiple ion detector (140) 41
- Tanimura, T., see Uchida, M. (138) 17
- Tasai, H., see Endo, T. (140) 263
- Taylor, L., see Otter, G.E. (133) 97
- Teague, C.E., see Kues, H.A. (135) 221
- Telling, G.M., Sissons, D.J. and Brinkman, H.W.
Determination of organochlorine insecticide residues in fatty foodstuffs using a clean-up technique based on a single column of activated alumina (137) 405
- Temple, C. Jr., Shortnacy, A.T. and Montgomery, J.A.
LC assay of the calcium salt of citrovorum factor (140) 114
- Terweij-Groen, C.P. and Kraak, J.C.
Ion-pair phase systems for the separation of carboxylic acids, sulphonic acids and phenols by HPLC (138) 245
- Tesařík, K., see Rejthar, L. (131) 404
- Tesser, G.I., see Gribnau, T.C.J. (132) 519
- Tewari, S.N. and Sharma, I.C.
Isolation and determination of chlorinated organic pesticides by TLC and the application to toxicological analysis (131) 275

- Thacker, L.H.
Improved miniature flow fluorometer for LC (136) 213
- Theimer, E.T., see Yoshida, T. (137) 461
- Thijssen, H.H.W.
Salt effects in reversed-phase TLC on silica gels (133) 355
- Thomas, B.H., see Wong, L.T. (135) 149
- Thomas, J.-P., Brun, A. and Bounine, J.-P.
Isohydric solvents in LSCC. Importance for the reproducibility of chromatographic separations and application to the experimental determination of mobile phase polarity (139) 21
- Thompson, R.M., see Coffin, R.D. (138) 223
- Thorpe, J.W., see Smith, H. (134) 178
- Thürmer, H., see Hopf, S. (139) 249
- Tillman, J., see Walkley, J.W. (132) 172
- Timberlake, C.F., see Singleton, V.L. (140) 120
- Timbrell, J.A., Wright, J.M. and Smith, C.M.
Determination of hydrazine metabolites of isoniazid in human urine by GC (138) 165
- Tittel, G. and Wagner, H.
HPLC separation of silymarins and their determination in crude extracts of *Silybum Marianum Gaertn.* (135) 499
- Tjaden, U.R., Krol, J.H., Van Hoeven, R.P., Oomen-Meulemans, E.P.M. and Emmelot, P.
HPLC of glycosphingolipids (with special reference to gangliosides) (136) 233
- Toba, T. and Adachi, S.
GLC of trimethylsilylated disaccharide oximes (135) 411
- Todd, C.W., see Pritchard, D.G. (133) 133
- Toren, E.C. Jr., see Schroeder, R.R. (134) 83
- Torriano, G., see Alessi, P. (133) 190
- Tourn, M.L., see Lombard, A. (134) 242
- Tranquilla, T., see Cashion, P. (136) 159
- Treble, R.D., see Hoodless, R.A. (136) 199
- Tremillon, B., see Doury-Berthod, M. (131) 73
- Tringali, C., see Amico, V. (131) 233
- Tscherne, R.J. and Capitano, G.
HPLC separation of pharmaceutical compounds using a mobile phase containing silver nitrate (136) 337
- Tse, F.L.S. and Welling, P.G.
Simultaneous determination of acetylmethadol and its major metabolites by GLC (135) 205
- Tsukamoto, M., see Imai, K. (137) 357
- Tsukida, K., Kodama, A. and Ito, M.
Simultaneous determination of *cis-trans* isomeric retinals by HPLC (134) 331
- Tsydendambaev, V.D., Zhukov, A.V. and Vereshchagin, A.G.
Preparation of plates with a permanent adsorbent layer and their application in the analytical TLC of lipids (132) 195
- Tucker, G.T., see Lennard, M.S. (133) 161
- Tulp, M.T.M. and Hutzing, O.
Use of ethyl ethers, deuteriomethyl ethers and cyclic *n*-butylboronates of hydroxychlorobiphenyls in identification of metabolites of polychlorinated biphenyls (139) 51
- Tunis, F., see Stancher, B. (131) 309
- Turnipseed, S.A., see Wold, J.S. (136) 170
- Tutschek, R., Meier, K.D., Grüning, F. and Stubba, W.
Amino acid analysis of physiological fluids by a single-column programme based on stepwise elution with lithium citrate (139) 211
- Tyler, R.C., see Morgan, E.D. (134) 174
- Tyman, J.H.P.
Long-chain phenols. VIII. Quantitative analysis of the unsaturated constituents of phenolic lipids by TLC-MS (136) 289
- Tyman, J.H.P.
Long-chain phenols. IX. Compositional studies on the unsaturated phenols of *Anacardium occidentale* (cashew nut-shell liquid) (138) 97
- ## U
- Uchida, M. and Tanimura, T.
Retention behaviour of a porous styrene-divinylbenzene copolymer in the separation of fatty acids and related compounds (138) 17
- Udenfriend, S., see Radhakrishnan, A.N. (132) 552
- Udiman, M., see Papin, J.-P. (132) 339
- Unger, P., see Čoupek, J. (133) 91
- Uno, T., see Wu, H.-L. (137) 127
- Urbańska, K., see Podkowińska, H. (137) 485
- Urbas, E. and Küllik, E.
Pyrolysis GC analysis of some toxic compounds from nitrogen-containing fibres (137) 210
- Uyttendaele, K., De Groote, M., Blaton, V., Peeters, H. and Alexander, F.
Analysis of the proteins in sweat and urine by agarose-gel isotachopheresis (132) 261
- ## V
- Valentour, J.C., see Kelly, R.C. (138) 413
- Van Boom, J.H. and De Rooy, J.F.M.
Sequence analysis of synthetic oligonucleotides by anion-exchange HPLC (131) 169

- Van Boven, M. and Daenens, P.
Combined GLC-MS analysis of pemoline in biological samples (134) 415
- Van Cantfort, J., see De Graeve, J. (133) 153
- Van Cauwenberghe, K., see Cautreels, W. (131) 253
- Van de Kamp, C.G., see Krijgsman, W. (131) 412
- Van den Berg, J.H.M., De Ruwe, H.J.J.M., Deelder, R.S. and Plomp, T.A.
CLC of tricyclic antidepressants (138) 431
- Van den Berg, J.H.M., Milley, J., Vonk, N. and Deelder, R.S.
Mechanisms of separation using the ternary mixture dichloromethane-ethanol-water in HPLC (132) 421
- Van der Veen, N.G., see Gelsema, W.J. (140) 149
- Van der Wal, S. and Huber, J.F.K.
Improvement of the efficiency of ion-exchange cellulose columns and their application (135) 287
- Van der Wal, S. and Huber, J.F.K.
Separation of estrogen glucuronides, sulphates and phosphates on ion-exchange cellulose by HPLC (135) 305
- Van Dort, M.A. and Bonner, W.A.
Quantitative GC resolution of amino ester diastereomers (133) 210
- Van Dort, M.A., see Flores, J.J. (132) 152
- Van Eekelen, C.A.G., see Gribnau, T.C.J. (132) 519
- Van Hoeven, R.P., see Tjaden, U.R. (136) 233
- Van Loon, J.C., Lichwa, J. and Radziuk, B.
Non-dispersive atomic fluorescence spectroscopy, a new detector for chromatography (136) 301
- Vančiková, O., see Helm, R. (133) 390
- Vandenheuvel, F.A.
GLC studies of reactions and structural relationships of steroids. V. Concurrent substitution in the pregnane side-chain and position 11 (133) 107
- VandenHeuvel, W.J.A., see Yabumoto, K. (140) 197
- Vanderhaeghe, H., see Adriaens, P. (140) 103
- Vanderhaeghe, H., see Janssen, G. (134) 365
- Varma, R. and Varma, R.S.
Simple procedure for combined GC analysis of neutral sugars, hexosamines and alditols. Determination of degree of polymerization of oligo- and polysaccharides and chain weights of glycosaminoglycans (139) 303
- Varma, R.S., see Varma, R. (139) 303
- Veen, N.G. van der, see Van der Veen, N.G. (140) 149
- Verbeke, R., see De Brabander, H.F. (138) 131
- Vereshchagin, A.G., see Tsydendambaev, V.D. (132) 195
- Vergnaud, J.-M., see Le Parlouer, P. (133) 253
- Verheggen, T.P.E.M., Mikkers, F.E.P. and Everaerts, F.M.
Isotachopheresis in narrow-bore tubes. Influence of the diameter of the separation compartment (132) 205
- Vermeulen, N.P.E., De Roode, D. and Breimer, D.D.
GC determination of pemoline as 5-phenyl-2,4-oxazolidinedione in human urine (137) 333
- Vernon, F. and Ogundipe, C.O.E.
Hydrocarbon stationary phases for GLC (132) 181
- Veronese, G., see Ragazzi, E. (132) 105, (134) 223
- Versaud, P., see Lemar, M. (132) 295
- Vestergaard, P.
Fast liquid-dispensing device for multi-column LC (139) 162
- Vestergaard, P., see Bachman, A. (132) 335
- Vesterinen, R., see Sattar, M.A. (135) 395, (136) 379
- Vidal-Madjar, C., see Arpino, P. (138) 173
- Vilim, A., LeBelle, M.J., Wilson, W.L. and Graham, K.C.
Simple TLC identification procedure for erythromycin base, stearate, estolate and ethylsuccinate (133) 239
- Villanueva, V.R., Adlakha, R.C. and Cantera-Soler, A.M.
Rapid determination of polyamines and some mono- and diamines in vegetable extracts (in French) (139) 381
- Vink, H.
Contributions to the theory of chromatography (135) 1
- Vinogradov, S.N., see Brown, R.K. (131) 223
- Vinson, J.A. and Hooyma, J.E.
Sensitive fluorogenic visualization reagent for the detection of lipids on thin-layer chromatograms (135) 226
- Vinson, J.A., Hooyma, J.E., Koharchek, H. and Holmes, M.M.
Sensitive TLC method for urine screening of barbiturates (140) 71
- Vitiello, F., see Zanetta, J.-P. (137) 481
- Vodrážka, Z., see Hrkal, Z. (135) 193
- Vodrážka, Z., see Suttar, J. (131) 453
- Vogelsang, S.H., see Axelsen, K.S. (140) 174
- Vogt, C.R., Ryan, T.R. and Baxter, J.S.
High-speed LC on cadmium-modified silica gel (136) 221
- Von Arx, E. and Faupel, M.
Chromatography on cellulose acetate plates. II. Colouring reagents for chromatography on cellulose acetate plates (in German) (134) 529
- Von Wartburg, J.P., see Sauter, A.M. (133) 167
- Vonk, N., see Van den Berg, J.H.M. (132) 421
- Votavová, E., see Novák, J. (139) 141
- Vozka, S. and Kubin, M.
Simple and efficient method of zone spreading correction in GPC (139) 225
- Vries, G. de, see De Vries, G. (134) 235

W

- Wagner, G.M., see Goenechea, S. (140) 134
- Wagner, H., see Tittel, G. (135) 499
- Wainwright, M.S., see Haken, J.K. (133) 1
- Wal, J.M., Peleraan, J.C. and Bories, G.
Simultaneous determination of Trenbolone acetate and ethynyl estradiol in food by combined TLC-GC (in French) (136) 165
- Wal, S. van der, see Van der Wal, S. (135) 287, (135) 305
- Waliszewski, K., see Olieman, C. (133) 382
- Walkley, J.W. and Tillman, J.
Simple TLC technique for the separation of mono- and oligosaccharides (132) 172
- Wallace, J.E., Hamilton, H.E., Skrdlant, H., Burkett, L.L. and Schwertner, H.
Identification of selected antihypertensive drugs by TLC (138) 111
- Wallin, I., see Ehrsson, H. (140) 157
- Walz, C., see Jain, R.S. (136) 141
- Warren, L., see Jain, R.S. (136) 141, (139) 283
- Wartburg, J.P. von, see Von Wartburg, J.P. (133) 167
- Wasserman, L., Ber, A. and Allalouf, D.
Use of TLC in the separation of disaccharides resulting from digestion of chondroitin sulphates with chondroitinases (136) 342
- Watson, I.D. and Stewart, M.J.
Quantitative determination of amitriptyline and nortriptyline in plasma by HPLC (132) 155
- Watson, I.D. and Stewart, M.J.
Assay of tricyclic structured drugs and their metabolites in urine by HPLC (134) 182
- Weatherley, B.C., see Cridland, J.S. (137) 449
- Webb, K.S., see Gough, T.A. (137) 293
- Wei, T., see Issaq, H.J. (133) 291
- Weinfeld, R.E., see Brooks, M.A. (135) 123
- Weinstrauch, F., see Baumgarten, E. (138) 347
- Welling, P.G., see Tse, F.L.S. (135) 205
- Wellington, C.A., see Edwards, W.G. (135) 463
- Wells, D.E. and Johnstone, S.J.
Method for the separation of organochlorine residues before GLC analysis (140) 17
- White, W.I.
Benzidine substitute visualizing agents for iron porphyrins (138) 220
- Whitford, J. H., see Fenimore, D.C. (140) 9
- Whiting, G.C., see Singleton, V.L. (140) 120
- Wibberley, D.G., see Poole, C.F. (132) 511, (136) 73
- Wiesel, F.-A., see Beck, O. (134) 407
- Wilking, G., see Becker, H. (136) 174
- Wilkinson, M., Sweeny, J.G. and Iacobucci, G.A.
HPLC of anthocyanidins (132) 349
- Willems, G.H.W.
Analysis of a gas stream using a manometric technique (in German) (138) 216
- Williams, D.T., Benoit, F., Muzika, K. and O'Grady, R.
GC determination of nitrilotriacetic acid using a nitrogen-selective detector (136) 423
- Williams, J.P., see Khan, M.-U. (140) 179
- Williams, P.S., see Laub, R.J. (134) 249
- Williamson, B.F., see Bristow, P.A. (131) 57
- Wilson, J.E., see Kinnier, W.J. (135) 508
- Wilson, W.L., see Vilim, A. (133) 239
- Winkler, E., Buchele, A. and Müller, O.
Method for the determination of polycyclic aromatic hydrocarbons in maize by capillary-column GLC (in German) (138) 151
- Witek, S., see Mierzwa, S. (136) 105
- Wojciechowski, B.W. and Rudziński, W.
Effects of surface heterogeneity in non-linear and non-equilibrium gas-adsorption chromatography (137) 1
- Wold, J.S. and Turnipseed, S.A.
Determination of cephaloridine in serum and tissue by HPLC (136) 170
- Wolf, W.R.
Coupled GC-atomic absorption spectrometry (134) 159
- Wolfram, J.H., Feinberg, J.I., Doerr, R.C. and Fiddler, W.
Determination of N-nitrosoproline at the nanogram level (132) 37
- Wong, L.T., Solomonraj, G. and Thomas, B.H.
Analysis of warfarin in plasma by HPLC (135) 149
- Wood, N.F. and Snoeyink, V.L.
2-Methylisoborneol, improved synthesis and a quantitative GC method for trace concentrations producing odor in water (132) 405
- Woodhouse, R.N., Cresswell, D.G., Chasseaud, L.F. and Brodie, R.R.
Use of HPLC to measure plasma concentrations of *p*-chlorophenoxyisobutyric acid after administration of clofibrate to humans (137) 218
- Wright, J.M., see Timbrell, J.A. (138) 165
- Wu, F.-F. and Dobberstein, R.H.
Quantitative determination of thebaine in *Papaver bracteatum* by HPLC (140) 65
- Wu, H.-L., Masada, M. and Uno, T.
GC and GC-MS analysis of ampicillin (137) 127
- Wuyts, W., see Adriaens, P. (140) 103

Y

- Yabumoto, K. and VandenHeuvel, W.J.A.
Optimization of operating parameters for glass capillary column GC (140) 197
- Yamase, I., see Kitaoka, Y. (132) 175
- Yamashita, K., see Miyazaki, H. (133) 311
- Yaphe, W., see Groleau, D. (137) 234
- Yasuda, S.K. and Loughran, E.D.
Air sampling methods for *s*-tetrachloroethane and other related chlorinated hydrocarbons (137) 283
- Yee, Y.-G., see Meffin, P.J. (138) 183
- Yeh, D.-B.
Polyacrylamide gel electrophoresis of water-soluble coal-tar dyes (132) 566
- Yoshida, T., Shu, C.-K. and Theimer, E.T.
Gram-scale preparative separation of *exo*- and *endo*-isomers by HPLC using a partial recycle technique (137) 461
- Yost, R., Stoveken, J. and MacLean, W.
Positive peak identification in LC using absorbance ratioing with a variable-wavelength spectrophotometric detector (134) 73
- Yousef, Y.Y., see Cole, W.J. (136) 409
- Yoza, N., Ishibashi, K. and Ohashi, S.
Gel and ion-exchange chromatographic purification of the reaction products between diphosphate and diphosphonate (134) 497

Z

- Zahn, R.K., see Arendes, J. (140) 118
- Zahn, R.K., see Breter, H.-J. (137) 61, (140) 251
- Zakrevsky, J.-G. and Mallet, V.N.
An *in situ* fluorimetric method for the detection and quantitative analysis of fenitrothion, its breakdown products and other amine-generating compounds (132) 315
- Zanetta, J.-P., Vitiello, F. and Robert, J.
TLC of gangliosides (137) 481
- Zanol, M., see Frigerio, A. (134) 299
- Zapolski, D., see Krull, M. (135) 212
- Zhukov, A.V. and Pchelkin, V.P.
GC analysis of lipids with the injection of aliquots of less than 0.05 μ l from small samples (132) 543
- Zhukov, A.V., see Tsydendambaev, V.D. (132) 195
- Zielinski, W.L. Jr., see Issaq, H.J. (131) 265, (132) 115
- Zielinski, W.L. Jr., see Janini, G.M. (132) 136
- Zimmerli, B.
Improvement in the detection limits of aflatoxins by HPLC using a fluorescence detector filled with silica gel (in German) (131) 458
- Zinkel, D.F. and Engler, C.C.
GLC of resin acid esters (136) 245
- Zlatkis, A., see Fenimore, D.C. (140) 9
- Zuleski, F.R., Loh, A. and Di Carlo, F.J.
Assay of human plasma for nortriptyline by radioacetylation and TLC (132) 45
- Zurek, G., see Fujiki, H. (140) 129

SUBJECT INDEX

VOLUMES 131-140

The volume number is placed in parentheses before the page number

A

- Absorbances, recording**
Electronic system for chart recorder absorbance output of the multicuvette system for LC (132) 335
- π -Acceptors**
Use of π -acceptors for detection of alkaloids on thin layers (132) 165
- Acebutolol**
HPLC analysis of drugs in biological fluids. V. Analysis of acebutolol and its major metabolite (138) 183
- Acetal alcohols**
Recycle GPC separation of some acetal alcohol diastereoisomers representing partial polyglucosidic sequences (138) 89
- Acetaldehyde**
Simple and rapid GLSC analysis of trace concentrations of acetaldehyde in urban air (137) 455
- Acetylglucosaminidase**
Purification of β -N-acetyl-D-glucosaminidase of the horseshoe crab by affinity chromatography (136) 141
- Acetylmethadol**
Simultaneous determination of acetylmethadol and its major metabolites by GLC (135) 205
- Acetylsalicylic acid**
Analysis of trace amounts of acetylsalicylic anhydride in acetylsalicylic acid (140) 131
- Acetylsalicylic anhydride**
Analysis of trace amounts of acetylsalicylic anhydride in acetylsalicylic acid (140) 131
- Aconitic acid**
GC of the pyrazoline derivative of trimethyl aconitate (132) 148
- Acrilan**
Pyrolysis GC analysis of some toxic compounds from nitrogen-containing fibres (137) 210
- Actinospectacin**
Chromatography of the reduction products of spectinomycin (136) 432
- Activity coefficients**
Mixed solvents in GLC. Activity coefficients for hexane in squalane and dinonyl phthalate mixtures at 303 °K (131) 399
- Activity coefficients**
Evaluation of solvent properties. A comparison of esters of 2-ethylhexanol (133) 190
- Adenine**
Detection reagent for adenine, guanine, uracil, cytosine and their alkylated bases, nucleotides and nucleosides on thin-layer plates (132) 121
- Adenine arabinosides**
HPLC of adenine and hypoxanthine arabinosides (139) 370
- Adenine nucleosides**
Separation of naturally occurring adenine nucleosides and nucleotides by anion-exchange chromatography (140) 118
- Adenine nucleotides**
Separation of naturally occurring adenine nucleosides and nucleotides by anion-exchange chromatography (140) 118
- Adenines**
Separation of alkylated guanines, adenines, uracils and cytosines by TLC (131) 265
- Adenosine monophosphate, cyclic**
Preliminary study of the use of dansyl chloride to determine cyclic-3',5'-AMP in tissues (134) 489
- Adenosine monophosphate, cyclic**
Thin-layer electrophoretic separation of the degradation products of cyclic adenosine-3',5'-monophosphate (137) 240
- Adjusted retention times**
Accurate calculation of adjusted retention time. I (135) 183
- Adriamycin**
Determination of doxorubicin hydrochloride in pharmaceutical preparations using HPLC (131) 375
- Adsorbent layer, permanent**
Preparation of plates with a permanent

adsorbent layer and their application in the analytical TLC of lipids (132) 195

Adsorbents

Studies of chromatographic packings comprising chemically bonded phases obtained from porous glass beads. I. Sorption properties and surface heterogeneity (131) 7

Adsorbents

Characterization of modified alumina as an adsorbent for GSC. Modification of alumina with alkali-metal fluorides (131) 19

Adsorbents

Ligand-exchange chromatography of racemates. IV. Influence of stationary-complex structure on the mechanism of ligand exchange (131) 65

Adsorbents

Comparison of HPLC and TLC data obtained with various types of silica (131) 408

Adsorbents

Charge-transfer adsorption chromatography (133) 180

Adsorbents

Improvements in GC columns formed by *in situ* polymerization (134) 170

Adsorbents

High-speed LC on cadmium-modified silica gel (136) 221

Adsorbents

Coordination polymers as adsorbents and stationary phases in GC. I. Poly(chromium(III) diphenylphosphinate) (138) 337

Adsorbents, carbon

Development and use of carbon adsorbents in HPLSC. II. Reproducibility of carbon adsorbents and the influence of graphitization on their performance (137) 19

Adsorbents, TLC

Separation of carrot carotenoids on Hyflo Super-Cel-magnesium oxide-calcium sulfate thin layers (139) 149

Adsorption chromatography

Some remarks on the characterization of GSC systems (133) 349

Adsorption chromatography

Effect of pH on polyelectrolytes in adsorption chromatography (138) 267

Adsorption, isosteric heat

Determination of the isosteric heat of adsorption by adsorption GC (131) 1

Adsorption isotherms

Adsorption isotherms of hydrocarbons on γ -alumina (138) 347

Adsorption, preferential

Preferential solvation of poly(dimethylsiloxane) and poly(methyl

methacrylate) in benzene-methanol mixtures by GPC (140) 219

Adsorption to glass

Determination of (+)-3*R*,(4*S*)-3-(4-methoxyphenoxy)methyl-1-methyl-4-phenylpiperidine hydrochloride (FG 4963) in biological fluids using competition for adsorption to glass (133) 147

Adumbran

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Aflatoxin B₁

Nondestructive distinction between aflatoxin B₁ and ethoxyquin in TLC (132) 115

Aflatoxins

Reversed-phase HPLC analytical system for aflatoxins in wines with fluorescence detection (131) 147

Aflatoxins

Improvement in the detection limits of aflatoxins by HPLC using a fluorescence detector filled with silica gel (in German) (131) 458

Agarose beads

Microscopic observations on agarose beads. Dehydration by solvent exchange as an alternative to lyophilization (132) 519

Agmatine

GC determination of methylguanidine, guanidine and agmatine as their hexafluoroacetylacetonates (140) 47

Agricultural chemicals

Comparison of electron-capture and electrolytic conductivity detection for the GLC analysis of some perfluoro derivatives of four agricultural chemicals (135) 117

Airborne particulate matter

Extraction of organic compounds from airborne particulate matter for GC analysis (131) 245

Airborne particulate matter

Fast quantitative analysis of organic compounds in airborne particulate matter by GC with selective MS detection (131) 253

Airborne volatiles

Concentration of headspace, airborne and aqueous volatiles on Chromosorb 105 for examination by GC and GC-MS (135) 49

Albumin

Protein binding of rifampicin to bovine serum albumin as measured by gel filtration (135) 25

Albumin

Protein binding of a series of rifamycins to bovine serum albumin as measured by the "two-phase partition" technique (135) 37

Albumin

Isolation of serum albumin and immunoglobulins by chromatography on Con-A Sepharose and Sephadex G-150 (135) 193

Alcohols

Correlation between the physical properties and structure of alcohols and their GC behaviour on polar and non-polar stationary phases. I. C₁-C₈ straight-chain alcohols (131) 41

Alcohols

Detection of alcohols at the femtogram level as pentafluorophenyldimethylsilyl ethers (132) 548

Alcohols, cyclic

GC determination of cyclic amines, ketones and alcohols, possible metabolites of sweet sulphamates (136) 318

Alcohols, polyhydric

Separation of some polyhydric alcohols by HPLC (140) 304

Aldehydes

Separation and quantitative determination of traces of carbonyl compounds as their 2,4-dinitrophenylhydrazones by HPLC (136) 271

Alditols

Simple procedure for combined GC analysis of neutral sugars, hexosamines and alditols. Determination of degree of polymerization of oligo- and polysaccharides and chain weights of glycosaminoglycans (139) 303

Aldonic acid

Simultaneous separation of oligomeric sugars and oligomers with a terminal aldonic acid group on anion-exchange resins (134) 195

Aldoses

Dansyl hydrazine as a fluorimetric reagent for TLC analysis for reducing sugars (139) 343

Alkali chlorine cell gas

Chromatographic analysis of alkali chlorine cell gas (139) 207

Alkaloids

HPLC determination of colchicine and colchicoside in colchicum (*Colchicum autumnale* L.) seeds on a home-made stationary phase (131) 444

Alkaloids

Use of π -acceptors for detection of alkaloids on thin layers (132) 165

Alkaloids

Detection and quantitative analysis of sanguinarine in edible oils (132) 359

Alkaloids

Determination of papaverine in blood samples by GLC and mass fragmentography (133) 153

Alkaloids

Rapid determination of certain alkaloids, other than nicotine, in tobacco (133) 378

Alkaloids

Chemistry of opium alkaloids. VIII. Separation of opium alkaloids and related compounds by ion-pair HPLC (133) 382

Alkaloids

HPLC of Catharanthus alkaloids (139) 203

Alkaloids

Quantitative determination of thebaine in *Papaver bracteatum* by HPLC (140) 65

Alkenes

Qualitative GC analysis and determination of solute properties. Study of the relationship between the molecular structure and GC retention of alkenes on squalane (137) 259

Alkylbenzenes

Capillary GC of alkylbenzenes. II. Correlations between the structures and methylene group increments and differences in retention indices of isomers (135) 71

Alkylbenzenes

Comparison of degradation products and processes in MS and pyrolysis GC applied to the identification of alkylbenzenes (135) 85

Alkylbenzenes

Capillary GC of alkylbenzenes. III. Correlations between the temperature and pressure coefficients of the retention index and structure (138) 119

Alkylbenzyltrimethylammonium chlorides

Separation of homologous alkylbenzyltrimethylammonium chlorides and alkylpyridinium halides by HPLC (134) 459

Alkyl ethoxylates

Determination of alkyl ethoxylate mixtures by programmed multiple development TLC (135) 165

Alkyl methylphosphonic acid *p*-nitrophenyl esters

Preparative purification of alkyl methylphosphonic acid *p*-nitrophenyl esters on Sephadex LH-20 (135) 196

Alkyl nitrites

Nitrosamide-specific detector for use with HPLC (133) 59

Alkylphenols

Study of retention behaviour of alkylphenols in straight- and reversed-phase LC and application to the analysis of complex phenolic mixtures in conjunction with GC (136) 45

Alkylphenols

Separation of isomeric alkylphenols by HPLC and GLC techniques (137) 53

Alkylphenols, brominated

LC study of brominated alkylphenols and

investigation of product formation in the coulometric bromination of some alkyl-substituted phenols (137) 363

Alkylphenols, monohydric

Separation of monohydric alkylphenols by GC. II (137) 425

Alkylpyridinium halides

Separation of homologous alkylbenzyltrimethylammonium chlorides and alkylpyridinium halides by HPLC (134) 459

Alumina

Characterization of modified alumina as an adsorbent for GSC. Modification of alumina with alkali-metal fluorides (131) 19

Alumina, gamma

Adsorption isotherms of hydrocarbons on γ -alumina (138) 347

Amatoxins

Assay for amatoxins in *Amanita phalloides* Fries (Basidiomycetes) with direct spectrometric measurements of chromatograms (in French) (132) 525

Ambilhar

GLC determination of niridazole in biological fluids (131) 442

Amide residues

Applications of GLC in protein chemistry. II. Determination of amide residues in nanomolar amounts of proteins (136) 361

Amines

Chromatography of Dns derivatives on pre-coated HPTLC plates (131) 109

Amines

GC-MS identification of urea derivatives formed by the reaction of amines with isocyanates (in German) (135) 401

Amines

Selective concentration of amines from aqueous solutions by a gas purging technique (136) 371

Amines

Formation of amine-N-trifluoroacetyl derivatives from the amine hydrochloride salts (139) 174

Amines

Rapid determination of polyamines and some mono- and diamines in vegetable extracts (in French) (139) 381

Amines, aliphatic

GC separation of lower aliphatic primary amines as their sulphur-containing Schiff bases using a glass capillary column (136) 253

Amines, cyclic

GC determination of cyclic amines, ketones and alcohols, possible metabolites of sweet sulphamates (136) 318

Amino acid analysis

Three-buffer single column analyses on two-buffer amino acid analyzers (133) 386

Amino acid degradation

Ion-exchange chromatographic study of amino acid degradation during hydrolysis of avian protein (135) 447

Amino acid enantiomers

Quantitative GC resolution of amino ester diastereomers (133) 210

Amino acids

Ligand-exchange separations of amino acids. I. Distribution equilibria of some amino acids between ammoniacal copper(II) nitrate solutions and phosphonic, carboxylic and iminodiacetic ion exchangers in the copper(II) form (131) 73

Amino acids

Chromatography of Dns derivatives on pre-coated HPTLC plates (131) 109

Amino acids

Quantitative analysis of protein and non-protein amino acids by GLC (131) 233

Amino acids

GC resolution of DL-isovaline (132) 152

Amino acids

Improved chromatographic identification of coloured amino acid thiohydantoins (132) 303

Amino acids

GC-MS of the N(O)-heptafluorobutryl isobutyl esters of the protein amino acids using electron impact ionisation (132) 485

Amino acids

GC separation of diastereoisomeric amino acid derivatives on glass capillaries. The use of pentafluoropropionyl-amino acid (+)-3-methyl-2-butyl esters (133) 141

Amino acids

Automatic sample introduction system for GLC analysis of amino acids (133) 203

Amino acids

Distinction of amino alcohols from amino acids by 4-N,N-dimethylaminoazobenzene-4'-isothiocyanate (135) 245

Amino acids

Bonded peptide stationary phases for the separation of amino acids and peptides using LC (135) 367

Amino acids

Qualitative and quantitative analysis of common and uncommon amino acids in plant extracts (135) 377

Amino acids

Determination of lysinoalanine with an automatic amino-acid analyzer (135) 502

Amino acids

Complete analysis of protein hydrolysates containing phosphoserine and phosphothreonine using the amino acid analyzer (135) 508

Amino acids

Amino acid analysis by GLC of N-heptafluorobutyl isobutyl esters. Complete resolution using a support-coated open-tubular capillary column (136) 113

Amino acids

TLC separation of racemates of some amino acids (in German) (136) 186

Amino acids

Preparative countercurrent chromatography with a slowly rotating helical tube (136) 189

Amino acids

Amino acid analysis: A novel reaction chamber (136) 417

Amino acids

Separation of L- and D-amino acids as diastereomeric derivatives by HPLC (136) 428

Amino acids

Use of a programmable pocket calculator in processing amino acid analysis data (137) 475

Amino acids

Simple method for the separation of amino acids, amino sugars and amino alcohols related to the peptidoglycan components on a standard amino acid analyser (138) 458

Amino acids

Amino acid analysis of physiological fluids by a single-column programme based on stepwise elution with lithium citrate (139) 211

Amino acids

Norleucine: An internal standard for the basic column used in physiological amino acid analysis (139) 215

Amino acids

Separation of ninhydrin-positive compounds on a single-column amino acid analyzer using lithium buffers (140) 103

Amino acids

Separation of 4-N,N-dimethylaminoazobenzene-4'-thiohydantoin of amino acids by TLC on silica gel (140) 125

Amino acids

Improved procedure for peptide characterization using TLC and a fluorescamine indicator (140) 129

Amino acids, basic

Use of a low-salt, alkaline buffer in the elution of basic amino acids from a single-column amino acid analyzer (132) 160

Amino acids, methylated, basic

Separation of methylated basic amino acids (133) 390

Amino acids, sulfur-containing

Artifacts in the GC analysis of some sulfur-containing amino acids (138) 223

Aminoacyl-tRNA synthetases

Use of ω -aminoethyl-Sepharose in the fractionation of *Escherichia coli* B aminoacyl-tRNA synthetases (139) 331

Amino alcohols

Distinction of amino alcohols from amino acids by 4-N,N-dimethylaminoazobenzene-4'-isothiocyanate (135) 245

Amino alcohols

Simple method for the separation of amino acids, amino sugars and amino alcohols related to the peptidoglycan components on a standard amino acid analyser (138) 458

Aminobutyric acid

Specific and sensitive method for the determination of γ -aminobutyric acid using GC with electron-capture or mass fragmentographic detection (139) 101

Aminocyclitol antibiotics

Separation of gentamicin C-complex into five components by Craig distribution (131) 191

Aminophenols

HPLC analysis of isomeric aminophenols with electrochemical detection (138) 229

Aminopyridines

TLC separation of several chloro- and methyl-substituted 2-aminopyridines (134) 238

Amino sugars

Simple method for the separation of amino acids, amino sugars and amino alcohols related to the peptidoglycan components on a standard amino acid analyser (138) 458

Aminotriazole

An *in situ* fluorimetric method for the detection and quantitative analysis of fenitrothion, its breakdown products and other amine-generating compounds (132) 315

Amitriptyline

Quantitative determination of amitriptyline and nortriptyline in plasma by HPLC (132) 155

Amitriptyline

Combined TLC and GLC identification of tricyclic antidepressants in urine (132) 237

Amitriptyline

Simultaneous determination of plasma amitriptyline and nortriptyline as trichloroethyl carbamates by electron-capture GC (133) 367

Amitriptyline

Assay of tricyclic structured drugs and their metabolites in urine by HPLC (134) 182

Amitriptyline

Rapid, sensitive GLC method for determination of amitriptyline and

nortriptyline in plasma using a nitrogen-sensitive detector (138) 437

Ammonium salts

Simplified detection of quaternary ammonium compounds by GC (131) 297

Ammonium salts

Influence of alkali metal salts on the migration of quaternary ammonium compounds on silica gel layers (137) 485

Amphetamine

Direct GLC analysis of N-hydroxyamphetamine, a metabolite of amphetamine (135) 200

Amphetamines

Nickel GC columns: An alternative to glass for biological samples (140) 9

Ampholine carrier ampholyte systems

Comparison of the buffer capacities of Ampholine and Servalyt carrier ampholyte systems used in isoelectric focusing (135) 441

Ampholytes

Carrier ampholyte distribution in isoelectric focusing (131) 223

Ampholytes

Itaconic acid carrier ampholytes for isoelectric focusing (134) 279

Ampholytes

Distribution of carrier ampholytes in isoelectric focusing (138) 213

Ampholytes

Isoelectric focusing as a method for the characterization of ampholytes. II. pH measurements in solvent mixtures used in density-gradient isoelectric focusing (140) 149

Ampholyte systems

Comparison of the buffer capacities of Ampholine and Servalyt carrier ampholyte systems used in isoelectric focusing (135) 441

Ampicillin

GC and GC-MS analysis of ampicillin (137) 127

Ampicillin polymers

Polymerization of penicillins. IV. Separation, isolation and characterization of ampicillin polymers formed in aqueous solution (132) 51

Androgens

Chromatographic separation of androgens, estrogens and progestogens on hydroxyalkoxypropyl-Sephadex (Lipidex) (133) 412

Aniline

GC study of binary diffusion of nitrobenzene and aniline in hydrogen (132) 344

Aniline

HPLC analysis of aniline and its metabolites (137) 305

Anisoyldeoxycytidine

Improved synthesis of N⁴-anisoyldeoxycytidine using Bio-Rex 5 columns (136) 159

Antabuse

Quantitative analysis of disulfiram and its metabolites in human blood by GLC (133) 167

Anthocyanidins

HPLC of anthocyanidins (132) 349

Anthocyanins

Identification of anthocyanins by GLC and MS (139) 111

Anthraglycosides

Determination of dihydroxydianthrone by densitometry after TLC (132) 363

Antibiotics

Separation of gentamicin C-complex into five components by Craig distribution (131) 191

Antibiotics

Polymerization of penicillins. IV. Separation, isolation and characterization of ampicillin polymers formed in aqueous solution (132) 51

Antibiotics

Simple method for the quantitative analysis of tetracyclines by direct fluorimetry after TLC on cellulose plates (132) 105

Antibiotics

Erythromycin series. V. Quantitative analysis of cladinose and methylcladinose by densitometry of thin-layer chromatograms (132) 309

Antibiotics

Analysis of urinary tract antibacterial agents in pharmaceutical dosage form by HPLC (132) 352

Antibiotics

Simple TLC identification procedure for erythromycin base, stearate, estolate and ethylsuccinate (133) 239

Antibiotics

TLC classification of antibiotics exhibiting antitumor properties (133) 291

Antibiotics

Salt effects in reversed-phase TLC on silica gels (133) 355

Antibiotics

Erythromycin series. IV. TLC of erythromycin, erythromycin oxime, erythromcyclamine and their acyl derivatives (133) 415

Antibiotics

Gel chromatography of tetracycline antibiotics (134) 223

Antibiotics

Preparation of trimethylsilyl derivatives of thiamphenicol (134) 365

Antibiotics

Reversed-phase HPLC determination of tetracyclines in urine and plasma (134) 441

Antibiotics

Protein binding of rifampicin to bovine serum albumin as measured by gel filtration (135) 25

Antibiotics

Protein binding of a series of rifamycins to bovine serum albumin as measured by the "two-phase partition" technique (135) 37

Antibiotics

GLC of methyl esters of natural penicillins (136) 162

Antibiotics

Determination of cephaloridine in serum and tissue by HPLC (136) 170

Antibiotics

Chromatography of the reduction products of spectinomycin (136) 432

Antibiotics

GC and GC-MS analysis of ampicillin (137) 127

Antibiotics

HPLC analysis of gramicidin, a polypeptide antibiotic (140) 174

Antibiotics

Reversed-phase HPLC of doxycycline (140) 293

Antibodies

Comparison of non-biospecific effects in immunoaffinity chromatography using cyanogen bromide and bifunctional oxirane as immobilising agents (135) 427

Antioxidants

Separation of butylated hydroxyanisole isomers on Sephadex LH-20 (132) 356

Antioxidants

Comparative GC behaviour and detection limits of 2,6-di-*tert*-butyl-4-methylphenol, 3-*tert*-butyl-4-hydroxyanisole (BHA), and the trifluoroacetate of BHA (133) 363

Antipyrine

Rapid and sensitive method for the determination of antipyrine in biological fluids by HPLC (140) 288

Apomorphine

GC determination of apomorphine in plasma (140) 57

Aqueous volatiles

Concentration of headspace, airborne and aqueous volatiles on Chromosorb 105 for examination by GC and GC-MS (135) 49

Arabinofuranosyladenine

Analysis by HPLC of 9- β -D-arabinofuranosyladenine 5'-triphosphate levels in murine leukemia cells (133) 335

Arabinosides

HPLC of adenine and hypoxanthine arabinosides (139) 370

Aromatic acids, chlorinated

GC identification of some chlorinated aromatic acids, chlorophenols, and their aromatic acid precursors (139) 186

Association, molecular

Thermodynamics of molecular association. Tri-*n*-alkylamine-chloroalkane systems (139) 1

Atmospheric aerosol samples

Reversed two-dimensional technique for multiple separations of benzo(a)pyrene from atmospheric aerosol samples (135) 241

Atomic absorption spectrometry

Coupled GC-atomic absorption spectrometry (134) 159

Automatic data collection

Automatic data collection and analysis using an FM tape recorder (132) 533

Automatic sample introduction system

Automatic sample introduction system for GLC analysis of amino acids (133) 203

Azapropazone

Chromatographic analysis of azapropazone and related benzotriazines (131) 448

B

Backflushing gas chromatography

GC with backflushing, with linear temperature programming in the first direction and a programmed longitudinal positive temperature gradient during the opposite direction of gas flow (133) 253

Barbiturates

Routine analysis of barbiturates and some other hypnotic drugs in the blood plasma as an aid to the diagnosis of acute poisoning (131) 131

Barbiturates

GC determination of hexobarbital and its metabolites from biological material (in German) (139) 191

Barbiturates

Sensitive TLC method for urine screening of barbiturates (140) 71

Barbiturates

GC determination of barbiturates by extractive

alkylation and support coated open tubular column separation (140) 165

Barbituric acids

Relative electron capture response of the 2-chloroethyl derivatives of some barbituric acids and anticonvulsant drugs (137) 111

Benactyzine

An ultramicro HPLC method for assaying ion-pair species of benactyzine (140) 300

Benorilate

Identification and quantitation of impurities from benorilate (Salipran) by HPLC (in French) (138) 193

Benzene

GC determination of the heat of adsorption of benzene and its monohalogeno derivatives adsorbed on montmorillonite-pyridinium (in French) (133) 184

Benzene homologues

Qualitative GC analysis and determination of solute properties. Calculation of the retention indices of benzene homologues on squalane (137) 265

Benzidine substitute visualizing agents

Benzidine substitute visualizing agents for iron porphyrins (138) 220

Benzodiazepines

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Benzodiazepines

Quantitative GC analysis of flunitrazepam in human serum with electron-capture detection (133) 319

Benzodiazepines

Rapid and sensitive electron-capture GC method for the determination of pinazepam and its metabolites in human plasma, urine and milk (135) 133

Benzodiazepines

Analysis of medazepam, diazepam, and metabolites in plasma by GLC with electrolytic conductivity detection (136) 127

Benzodiazepines

Comparison of two GLC methods for the determination of nitrazepam in plasma (136) 259

Benzodiazepines

Analysis of nitrazepam and its metabolites by HPLC (137) 215

Benzodiazepines

Rapid micro-method for the measurement of diazepam and desmethyldiazepam in blood plasma by GLC (137) 439

Benzophenones

Analysis of benzodiazepines and their

hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Benzopyrene

Stability of benzo(a)pyrene on silica gel plates for HPTLC (131) 417

Benzopyrene

GLC analysis of benzo(a)pyrene in cigarette smoke on a nematic liquid crystal (132) 136

Benzopyrene

Reversed two-dimensional technique for multiple separations of benzo(a)pyrene from atmospheric aerosol samples (135) 241

Benzothiazepine

Simple, sensitive and specific GC method for the quantification of diltiazem in human body fluids (138) 391

Benzotriazines

Chromatographic analysis of azapropazone and related benzotriazines (131) 448

Benzoylcegonine

Single- and two-step extraction and thin-layer detection procedures for benzoylcegonine (cocaine metabolite) alone or in combination with a wide variety of commonly abused drugs in urine screening programs (135) 385

Beryllium oxycarboxylates

GC monitoring of the reaction of beryllium oxyacetate and beryllium oxypropionate in acetone solution (140) 93

Bicyclic aromatic hydrocarbons

GC separation and identification of bicyclic aromatic hydrocarbons in kerosene (b.p. 200-280°) (137) 198

Bile acids

Bile acid ethyl esters. Their infrequent formation during routine bile acid analysis and identification by GC and MS (131) 437

Bile acids

LC separation of bile acids (133) 273

Bile acids

Isolation and purification of lithocholic acid metabolites produced by the intestinal microflora (133) 327

Bile salts

Detection of bile salts with Komarowsky's reagent and group specific dehydrogenases (136) 348

Binary diffusion coefficients

GC study of binary diffusion of nitrobenzene and aniline in hydrogen (132) 344

Bis(monoacylglyceryl) phosphate

Improved TLC method for the separation of major phospholipids and glycolipids from plant lipid extracts and phosphatidyl glycerol and bis(monoacylglyceryl) phosphate from animal lipid extracts (140) 179

Bovine serum albumin

Protein binding of rifampicin to bovine serum albumin as measured by gel filtration (135) 25

Bovine serum albumin

Protein binding of a series of rifamycins to bovine serum albumin as measured by the "two-phase partition" technique (135) 37

Butriptyline

Determination of therapeutic levels of butriptyline in plasma by GLC (134) 524

Butyl chlorohydroxypropyl ethers

GC identification of butyl 3-chloro-2-hydroxypropyl ethers and butyl glycidyl ethers (in German) (131) 303

Butyl glycidyl ethers

GC identification of butyl 3-chloro-2-hydroxypropyl ethers and butyl glycidyl ethers (in German) (131) 303

Butylhydroxyanisole

Comparative GC behaviour and detection limits of 2,6-di-*tert*.-butyl-4-methylphenol, 3-*tert*.-butyl-4-hydroxyanisole (BHA), and the trifluoroacetate of BHA (133) 363

BW 197U

Determination of 2,4-diamino-5-(3,4-dichlorophenyl)-6-methylpyrimidine (BW 197U) in human plasma (137) 449

C**Cadmium chelates**

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Cadmium chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Cadmium-EDTA complexes

Electrophoretic investigations of the complexing of cadmium and zinc with EDTA (132) 323

Cadmium-modified silica gel

High-speed LC on cadmium-modified silica gel (136) 221

Capillary columns combined with electron-capture detection

Performance characteristics of a system containing a capillary column and an electron-capture detector (131) 404

Capillary viscometer coupled to a gel-permeation chromatograph

Coupling of a gel-permeation chromatograph and an automatic capillary viscometer. I. Influence of the column efficiency (132) 187

Capron fibre

Pyrolysis GC of capron (nylon-6) fibre stabilized with ethers of 4-oxydiphenylamine (135) 212

Carbamate pesticides

Comparison of drosophila, rat-liver and bee-head esterases in detecting residues of organophosphorus and carbamate pesticides in vegetables and fruits (133) 245

Carbamazepine

Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332

Carbofuran

Comparison of electron-capture and electrolytic conductivity detection for the GLC analysis of some perfluoro derivatives of four agricultural chemicals (135) 117

Carbofuran

Phenones: A family of compounds broadly applicable to use as internal standards in HPLC. Application to the analysis of carbofuran (138) 41

Carbofuran

Detection of carbofuran and metabolites directly or as their heptafluorobutyryl derivatives using GLC or HPLC with different detectors (138) 143

Carbofuran

Inexpensive temperature control system for HPLC. Application to carbofuran analysis and temperature programming for LC analysis (138) 321

Carbofuran

Simplified method for the determination of residues of carbofuran and its metabolites in crops using GLC-mass fragmentography (140) 209

Carbohydrates

Vanadium pentoxide in sulphuric acid, a general chromogenic spray reagent for carbohydrates (134) 467

Carbohydrates

Sensitive determination of derivatized carbohydrates by HPLC (136) 279

Carbon

Ionization detector for GC with switchable selectivity for carbon, nitrogen and phosphorus (134) 65

Carbon adsorbents

Development and use of carbon adsorbents in HPLSC. II. Reproducibility of carbon

adsorbents and the influence of graphitization on their performance (137) 19

Carbon-carbon single bonds

Identification of substances containing carbon-carbon single bonds by use of reaction GC (131) 291

Carbonyl compounds

Separation and quantitative determination of traces of carbonyl compounds as their 2,4-dinitrophenylhydrazones by HPLC (136) 271

Carboxylic acids

Ion-pair phase systems for the separation of carboxylic acids, sulphonic acids and phenols by HPLC (138) 245

Carcinogens

Extraction of organic compounds from airborne particulate matter for GC analysis (131) 245

Carcinogens

Stability of benzo(a)pyrene on silica gel plates for HPTLC (131) 417

Carcinogens

GLC analysis of benzo(a)pyrene in cigarette smoke on a nematic liquid crystal (132) 136

Carcinogens

GC and mass fragmentographic assays of carcinogenic polycyclic hydrocarbon epoxide hydratase activity (134) 323

Carcinogens

Simple chemiluminescent detector for the screening of foodstuffs for the presence of volatile nitrosamines (137) 293

Carcinogens

HPLC analysis of aniline and its metabolites (137) 305

Carcinogens

Method for the determination of polycyclic aromatic hydrocarbons in maize by capillary-column GLC (in German) (138) 151

Carcinogens

GC method for the analysis of major polynuclear aromatics in particulate matter (138) 399

Carcinogens

GC determination of methylguanidine, guanidine and agmatine as their hexafluoroacetylacetates (140) 47

Carcinogens

Photolysis of volatile nitrosamines at the picogram level as an aid to confirmation (140) 284

Cardenolides

Separation of digitalis cardenolides by HPTLC (in German) (138) 238

Carotenoids

Separation of carrot carotenoids on Hyflo

Super-Cel-magnesium oxide-calcium sulfate thin layers (139) 149

Carprofen

Determination of the anti-inflammatory agent carprofen, (D,L)-6-chloro- α -methylcarbazole-2-acetic acid, in blood by HPLC (136) 391

Carrier ampholytes

Carrier ampholyte distribution in isoelectric focusing (131) 223

Carrier ampholytes

Itaconic acid carrier ampholytes for isoelectric focusing (134) 279

Carrier ampholytes

Distribution of carrier ampholytes in isoelectric focusing (138) 213

Catalysts

Chromatographic investigations of mixed catalysts (138) 309

Catalysts

GC investigations of the system tricobalt tetroxide-hydrogen (139) 349

Catechol

TLC of chlorinated catechols (135) 395

Catecholamines

HPLC assay of rat-brain dopamine and norepinephrine (137) 357

Catecholamines

PC separation of noradrenaline and its major metabolites (139) 218

Cation exchanger

Synthetic inorganic ion-exchange materials. XV. Chromatographic separation of alkali metal ions using phosphoantimonic(V) acid as a cation exchanger (134) 507

Cation-exchange resins

Comparison of efficiency of cation-exchange resins in the chromatographic separation of metal ions with aqueous acetone-hydrochloric acid solution (137) 381

Cation exchangers, regeneration

Device for regeneration of cation-exchange resins with hydrochloric acid (133) 237

Cellulose columns

Improvement of the efficiency of ion-exchange cellulose columns and their application (135) 287

Central nervous stimulants

Detection of sympathomimetic central nervous stimulants with special reference to doping. I. Comparative study of a conventional extraction procedure and adsorption chromatography using XAD-2 resin (133) 214

Central nervous stimulants

Detection of sympathomimetic central nervous stimulants with special reference to doping. II. Comparative study of two adsorption

chromatography methods using different XAD resins (136) 385

Cephaloridine

Determination of cephaloridine in serum and tissue by HPLC (136) 170

Chalcones

Separation and identification of some hydroxychalcones and their derivatives (138) 243

Charge-transfer adsorption chromatography

Charge-transfer adsorption chromatography (133) 180

Chelate-forming ligands

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Chelate-forming ligands

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Chemiluminescence

Chemiluminescence: a new method for detecting fluorescent compounds separated by TLC (134) 343

Chemiluminescence

Coupling of chemiluminescence TLC detection to a Vidicon rapid scanning detector (134) 513

Chemiluminescent detector

Simple chemiluminescent detector for the screening of foodstuffs for the presence of volatile nitrosamines (137) 293

Chlorbutanol

Estimation of chlorbutanol by electron capture GC (134) 178

Chlordiazepoxide

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Chlordiazepoxide

TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489

Chlorinated aromatic acids

GC identification of some chlorinated aromatic acids, chlorophenols, and their aromatic acid precursors (139) 186

Chlorinated cresols

TLC of chlorinated cresols (136) 379

Chlorinated hydrocarbons

Air sampling methods for *s*-tetrachloroethane and other related chlorinated hydrocarbons (137) 283

Chlorinated insecticides

Separation, detection and densitometric determination of chlorinated insecticides on

silica gel and aluminum hydroxide papers (135) 235

Chlorinated organic pesticides

Isolation and determination of chlorinated organic pesticides by TLC and the application to toxicological analysis (131) 275

Chlorinated pesticides

Determination of chlorinated pesticides in potable water (132) 277

Chloroaminopyridines

TLC separation of several chloro- and methyl-substituted 2-aminopyridines (134) 238

Chloromethylcarbazoleacetic acid

Determination of the anti-inflammatory agent carprofen, (D,L)-6-chloro- α -methylcarbazole-2-acetic acid, in blood by HPLC (136) 391

Chloromethylcarbazoleacetic acid

Determination of (*d,l*)-6-chloro- α -methylcarbazole-2-acetic acid in plasma by HPLC (140) 310

Chlorophenols

Determination of chlorophenols by capillary GC (131) 412

Chlorophenols

GC identification of some chlorinated aromatic acids, chlorophenols, and their aromatic acid precursors (139) 186

Chlorophenoxyisobutyric acid

Use of HPLC to measure plasma concentrations of *p*-chlorophenoxyisobutyric acid after administration of clofibrate to humans (137) 218

Chlorophylls

TLC of chlorophylls and their derivatives on cellulose layers (134) 359

Chloroquinaldol

Extractive alkylation of biological samples of clioquinol or chloroquinaldol and determination by electron capture GC (140) 170

Chlorpromazine

Assay of tricyclic structured drugs and their metabolites in urine by HPLC (134) 182

Cholinesterases

Synthesis of an N-methylacridinium-Sepharose: its use in the purification of cholinesterases (in French) (135) 477

Chromatographic parameters

Investigations of the relationship between molecular structure and chromatographic parameters. X. Extraction of organic solutes with mixtures of chloroform and electron-donor solvents (132) 379

Chromium chelates of diketones

Gel chromatography of β -diketones and their metal complexes. VI. Elution behaviour of

various β -diketones and their chromium(III) chelates on different gels (138) 79

Chromogenic reagents

The van Urk-Salkowski reagent: A sensitive and specific chromogenic reagent for silica gel TLC detection and identification of indole derivatives (132) 267

Chromogenic spray reagents

Vanadium pentoxide in sulphuric acid, a general chromogenic spray reagent for carbohydrates (134) 467

Cinnamate derivatives

Chromatography of natural phenolic cinnamate derivatives on Sephadex LH-20 and G-25 (140) 120

Cinnamic acid derivatives

Selective liquid-liquid partition systems for the chromatographic analysis of some coumarins and phenolic acids (derivatives of cinnamic acid) (137) 182

Cinoxacin

Analysis of urinary tract antibacterial agents in pharmaceutical dosage form by HPLC (132) 352

Citral

Production of citral from geraniol. II. Capillary GC-MS investigation of two different oxidation reactions using a graphite porous-layer open-tubular column with a large coating ratio of polar liquid phase (138) 173

Citrovorum factor

LC assay of the calcium salt of citrovorum factor (140) 114

Cladinose

Erythromycin series. V. Quantitative analysis of cladinose and methylcladinose by densitometry of thin-layer chromatograms (132) 309

Clemizole hexachlorophenate

TLC of active compounds from ointments and suppositories followed by direct quantitative analysis by remission (in German) (131) 391

Clemizole undecylate

TLC of active compounds from ointments and suppositories followed by direct quantitative analysis by remission (in German) (131) 391

Clioquinol

Extractive alkylation of biological samples of clioquinol or chloroquinaldol and determination by electron capture GC (140) 170

Clofibrate

HPLC analysis of drugs in biological fluids. IV. Determination of clofibrinic acid (137) 145

Clofibrate

Use of HPLC to measure plasma concentrations of *p*-chlorophenoxyisobutyric

acid after administration of clofibrate to humans (137) 218

Clofibrinic acid

HPLC analysis of drugs in biological fluids. IV. Determination of clofibrinic acid (137) 145

Clonazepam

Determination of clonazepam and its 7-amino metabolite in plasma and blood by GC-chemical ionization MS (139) 121

Clonopin

Determination of clonazepam and its 7-amino metabolite in plasma and blood by GC-chemical ionization MS (139) 121

Clopidol

Comparison of electron-capture and electrolytic conductivity detection for the GLC analysis of some perfluoro derivatives of four agricultural chemicals (135) 117

Clorazepate

Determination of clorazepate and its major metabolites in blood and urine by electron capture GLC (135) 123

Cloxacillin

Salt effects in reversed-phase TLC on silica gels (133) 355

Cluster expansion for retention volume

Cluster expansion for retention volume in adsorption GC. Adsorption of hydrocarbons on graphite (139) 237

Coal-tar dyes

Polyacrylamide gel electrophoresis of water-soluble coal-tar dyes (132) 566

Coating

Dynamic coating of glass capillaries with polar phases and Silanox (136) 308

Cobalt chelates

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Cobalt chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Cobalt complexes

Formation of polymeric species by reaction of cobalt(III) complexes with ammonium sulphide (133) 425

Cobalt complexes

Effect of the composition and structure of cobalt(III) complexes on their R_F values obtained by partition PC. I. Effect of the position of nitro groups and the chelate ring size (139) 45

Cobalt oxide

Chromatographic investigations of mixed catalysts (138) 309

Cobalt oxides

GC investigations of the system tricobalt tetroxide-hydrogen (139) 349

Cocaine

GC determination of cocaine in whole blood and plasma using a nitrogen-sensitive flame ionization detector (135) 141

Cocaine metabolites

Single- and two-step extraction and thin-layer detection procedures for benzoylecgonine (cocaine metabolite) alone or in combination with a wide variety of commonly abused drugs in urine screening programs (135) 385

Colchicine

HPLC determination of colchicine and colchicoside in colchicum (*Colchicum autumnale* L.) seeds on a home-made stationary phase (131) 444

Colchicoside

HPLC determination of colchicine and colchicoside in colchicum (*Colchicum autumnale* L.) seeds on a home-made stationary phase (131) 444

Colouring reagents

Chromatography on cellulose acetate plates. II. Colouring reagents for chromatography on cellulose acetate plates (in German) (134) 529

Column efficiency

Improvement of the efficiency of ion-exchange cellulose columns and their application (135) 287

Column packing

Upward slurry packing of LC columns (131) 57

Column packings

Silar 10 C, Silar 9 CP, SP 2340 and OV-275 in the GLC of fatty acid methyl esters on packed columns. Chromatographic characteristics and molecular structures (135) 93

Column preparation

Production of citral from geraniol. II. Capillary GC-MS investigation of two different oxidation reactions using a graphite porous-layer open-tubular column with a large coating ratio of polar liquid phase (138) 173

Columns

Nickel GC columns: An alternative to glass for biological samples (140) 9

Compound-selective detector

Microcomputer-directed mass spectrometer as a compound-selective detector for GC (134) 39

Computer program

Computer-assisted prediction of GC separations (134) 249

Concentration effects

Concentration effects in GPC. I. Polymer solution properties (134) 263

Congo red dyes

Electrophoretic behaviour of congo red dyes in aqueous dimethylformamide containing an electrolyte (132) 175

Continuous-flow electrophoresis

Convection in continuous-flow electrophoresis (140) 187

Continuous-flow enzyme detector

Continuous-flow enzyme detector for LC (134) 91

Controlled-pore glass

Determination of protein molecular weights in denaturing solvents using glyceryl-CPG (132) 399

Controlled pore glass columns

General permeation chromatography equation and its application to tailor-made controlled pore glass columns (132) 387

Convection

Convection in continuous-flow electrophoresis (140) 187

Cooling gas, industrial

Determination of organic compounds in the hydrogen used for cooling large electricity generators (137) 315

Copolymers, styrene-divinylbenzene

Retention behaviour of a porous styrene-divinylbenzene copolymer in the separation of fatty acids and related compounds (138) 17

Copper

GPC of transition metal ions using Bio-Gels (135) 173

Copper chelates

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkylthiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 193

Copper chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Corticosteroid hormones

GLC studies of reactions and structural relationships of steroids. V. Concurrent substitution in the pregnane side-chain and position 11 (133) 107

Coulometric electron-capture detector

Destructive and non-destructive models of the coulometric electron-capture detector (137) 245

Coumarins

Selective liquid-liquid partition systems for the chromatographic analysis of some coumarins and phenolic acids (derivatives of cinnamic acid) (137) 182

Cresols, chlorinated

TLC of chlorinated cresols (136) 379

Crude oils

Isolation of natural surface-active materials of crude oils by adsorption chromatography (139) 135

Cumylphenol

Elution behaviour of some derivatives of 2-(4-hydroxyphenyl)-2-phenylpropane on Sephadex LH-20 in methanol and N,N-dimethylformamide (132) 99

Cumylphenol

Elution behaviour of some derivatives of 2-phenyl-2-(4-hydroxyphenyl)propane on Sephadex LH-20 with acetone and 1,4-dioxan as eluents (135) 473

Curie-point pyrolysis gas chromatography

Short-time pyrolysis and spectroscopy of unstable compounds. V. Improvement in Curie-point pyrolysis GC (136) 420

Cyanine dyes

TLC of some cyanine dyes (135) 221

Cyclic adenosine monophosphate

Preliminary study of the use of dansyl chloride to determine cyclic-3',5'-AMP in tissues (134) 489

Cyclic adenosine monophosphate

Thin-layer electrophoretic separation of the degradation products of cyclic adenosine-3',5'-monophosphate (137) 240

Cycloalkanes

Influence of conformations and structures on retention values of cycloalkanes and cycloalkanones (in French) (138) 63

Cycloalkanones

Influence of conformations and structures on retention values of cycloalkanes and cycloalkanones (in French) (138) 63

Cyclobenzaprine

Determination of various drugs in rodent diet mixtures (131) 357

Cystine

Artifacts in the GC analysis of some sulfur-containing amino acids (138) 223

Cytenamide

Epoxide-diol metabolic pathway of cytenamide in the rat (134) 299

Cytosine

Detection reagent for adenine, guanine, uracil, cytosine and their alkylated bases, nucleotides and nucleosides on thin-layer plates (132) 121

Cytosines

Separation of alkylated guanines, adenines, uracils and cytosines by TLC (131) 265

D**Data acquisition**

Precision of contemporary LC measurements (138) 283

Data collection

Automatic data collection and analysis using an FM tape recorder (132) 533

Data prediction

Computer-assisted prediction of GC separations (134) 249

Data prediction

GC of homologous esters. X. Data prediction properties of a Rohrschneider-type scheme (135) 61

Data prediction

GC of homologous esters. XI. Use of ester solutes in a Rohrschneider-type scheme for data prediction (135) 67

Data prediction

New σ_c^* polar effect constants scale adapted to chromatography (in French) (136) 5

Data prediction

Attempt to use HPTLC data for prediction of HPLC retention coefficients (in French) (137) 35

Data processing

Use of a programmable pocket calculator in processing amino acid analysis data (137) 475

Data processing

Direct measurement of GC retention volume. III. Software (139) 156

DDD

Simple and sensitive GLC method for the determination of *o,p'*-DDD in biological fluids (133) 218

DDMP

Determination of 2,4-diamino-5-(3,4-dichlorophenyl)-6-methylpyrimidine (BW 197U) in human plasma (137) 449

Dead-time estimation

Problem of accuracy of mathematical dead-time estimation (133) 1

Debrisoquine

Determination of debrisoquine and its 4-hydroxy metabolite in biological fluids by GC with flame-ionization and nitrogen-selective detection (133) 161

Declinax

Determination of debrisoquine and its 4-hydroxy metabolite in biological fluids by GC with flame-ionization and nitrogen-selective detection (133) 161

Demoxytocin

Separation of nonapeptides by reversed-phase HPLC (132) 27

Demoxytocin

Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429

Density-gradient isoelectric focusing

Isoelectric focusing as a method for the characterization of ampholytes. II. pH measurements in solvent mixtures used in density-gradient isoelectric focusing (140) 149

Deoxyribonucleosides

Single-step separation of major and rare ribonucleosides and deoxyribonucleosides by cation-exchange HPLC for the determination of the purity of nucleic acid preparation (140) 251

Deoxy sugars

Direct spectrophotometric TLC for determining malondialdehyde and β -formyl pyruvate produced by the periodate oxidation of some deoxy sugars (131) 464

Depakine

GC determination of valproic acid in human plasma (132) 145

Desipramine

Combined TLC and GLC identification of tricyclic antidepressants in urine (132) 237

Desmethyldiazepam

Rapid micro-method for the measurement of diazepam and desmethyldiazepam in blood plasma by GLC (137) 439

Detectors

Detection by IR spectrometry in HPLC (in French) (132) 295

Detectors

Construction and evaluation of a thermostatted permittivity detector for column HPLC (132) 369

Detectors

Micro-adsorption detector. I. Principles of operation and mechanism of response (133) 31

Detectors

Study of the nitrogen response mode of the thermionic rubidium silicate detector (133) 37

Detectors

Nitrosamide-specific detector for use with HPLC (133) 59

Detectors

Diode array detector in LC. II. Enhanced sensitivity via first derivative ($dA/d\lambda$) chromatograms (133) 352

Detectors

Electrolytic conductivity detector as an element-selective GC detector (134) 1

Detectors

Pulse-modulated electron capture detection with nitrogen carrier gas (134) 25

Detectors

Evaluation of a new photoionization detector for organic compounds (134) 49

Detectors

Nitrogen-phosphorus detector and its applications in GC (134) 57

Detectors

Ionization detector for GC with switchable selectivity for carbon, nitrogen and phosphorus (134) 65

Detectors

Positive peak identification in LC using absorbance ratioing with a variable-wavelength spectrophotometric detector (134) 73

Detectors

Enzyme-selective detector systems for HPLC (134) 83

Detectors

Continuous-flow enzyme detector for LC (134) 91

Detectors

Use of fluorescence detection in HPLC (134) 107

Detectors

Fluorescence detector for HPLC (134) 121

Detectors

Selective IR detectors for chromatography (134) 131

Detectors

Mass spectrometer as a substance-selective detector in chromatography (134) 147

Detectors

Coupled GC-atomic absorption spectrometry (134) 159

Detectors

Coupling of chemiluminescence TLC detection to a Vidicon rapid scanning detector (134) 513

Detectors

Optimisation of the performance of a three-electrode thermionic detector for the detection of phosphorus, sulphur and nitrogen compounds by GC (136) 199

Detectors

Improved miniature flow fluorometer for LC (136) 213

Detectors

Non-dispersive atomic fluorescence spectroscopy, a new detector for chromatography (136) 301

Detectors

Fast and sensitive thermal conductivity

detector for use with capillary columns (in German) (137) 13

Detectors

Destructive and non-destructive models of the coulometric electron-capture detector (137) 245

Detectors

Simple chemiluminescent detector for the screening of foodstuffs for the presence of volatile nitrosamines (137) 293

Detectors

Properties of the flow-impedance bridge detector (138) 1

Detectors

Analysis of a gas stream using a manometric technique (in German) (138) 216

Detectors

Silicon detector for GC (140) 1

Detectors

Significance of the rubidium bromide thermionic detector equipped with a gate electrode in the analysis of halogenated dithiocarbamate derivatives (140) 86

Detergents

Preparation and TLC of sulfate conjugates of the component oligomers of Triton X-100 (137) 397

Dextrans

General permeation chromatography equation and its application to tailor-made controlled pore glass columns (132) 387

Dextromethorphan

GLC determination of dextromethorphan in serum and brain (140) 270

Dextropropoxyphene

GC method for the determination of dextropropoxyphene and nordextropropoxyphene in human plasma, serum and urine (140) 280

Diamines

Rapid determination of polyamines and some mono- and diamines in vegetable extracts (in French) (139) 381

Diaminobenzene

Some 1,2-diaminobenzene derivatives as reagents for GC determination of selenium with an electron-capture detector (136) 85

Diarylethanes

Chromatographic behaviour of diastereomers. II. TLC behaviour of diastereomeric 1,2-disubstituted 1,2-diarylethanes (132) 61

Diastereomers

Chromatographic behaviour of diastereomers. II. TLC behaviour of diastereomeric 1,2-disubstituted 1,2-diarylethanes (132) 61

Diastereomers

Chromatographic behaviour of diastereomers.

III. TLC behaviour of diastereomeric 4-substituted 6,7-dialkoxy-3-aryl-tetrahydroisoquinolines and -isochromans (132) 73

Diastereomers

HPLC resolution of propoxyphene carbinol diastereomers (134) 187

Diazepam

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Diazepam

Analysis of medazepam, diazepam, and metabolites in plasma by GLC with electrolytic conductivity detection (136) 127

Diazepam

Rapid micro-method for the measurement of diazepam and desmethyldiazepam in blood plasma by GLC (137) 439

Diazepam

TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489

Dibenzoazepine

Epoxide-diol pathway in the metabolism of 5*H*-dibenzol*b*,*f*azepine (iminostilbene) (134) 307

Dibenzocycloheptene

"Epoxide-diol" metabolic pathway of 5*H*-dibenzol*a*,*d*cycloheptene in the rat. Studies by GC and MS (131) 430

Di(*p*-bromophenyl)-triphenylcyclo-2,4-pentadien-1-methyl ether isomers

Preparative HPLC separation of high-molecular-weight isomers (131) 185

Dibucaine hydrochloride

TLC of active compounds from ointments and suppositories followed by direct quantitative analysis by remission (in German) (131) 391

Dibutylmethylphenol

Comparative GC behaviour and detection limits of 2,6-di-*tert*-butyl-4-methylphenol, 3-*tert*-butyl-4-hydroxyanisole (BHA), and the trifluoroacetate of BHA (133) 363

Dicarboxylic hydroxy acids

Anion-exchange chromatography of dicarboxylic hydroxy acids (134) 337

Dichlorosulphinylamines

GC analysis of aromatic sulphinylamines. II (139) 177

Di(ethylhexyl)phthalate

Determination of di-(2-ethylhexyl)phthalate in human placenta (132) 511

Diethylstilbestrol

Comparison of electron-capture and electrolytic conductivity detection for the GLC

analysis of some perfluoro derivatives of four agricultural chemicals (135) 117

Difenacoum

Determination of the rodenticide difenacoum in biological materials by HPLC with confirmation of identity by MS (139) 321

Digitalis cardenolides

Separation of digitalis cardenolides by HPTLC (in German) (138) 238

Dihydroequilin

TLC system for the semi-quantitative analysis of the ratio of α - and β -dihydroequilin in the diol fraction of equine estrogen conjugates (135) 523

Dihydrophenylspiroisobenzopiperidinel

GLC determination of 1,3-dihydro-3-phenylspiroisobenzofuran-1,4-piperidinel, HP 505, in biological fluids using a nitrogen-specific detector (136) 401

Dihydroxydianthrone

Determination of dihydroxydianthrone by densitometry after TLC (132) 363

Diisocyanates

Simple ureas derived from diisocyanates and their LC on a 5-cm column (134) 451

Diketones

Gel chromatography of β -diketones and their metal complexes. VI. Elution behaviour of various β -diketones and their chromium(III) chelates on different gels (138) 79

Diltiazem

Simple, sensitive and specific GC method for the quantification of diltiazem in human body fluids (138) 391

Dimethylbiguanide

Determination of metformin in biological fluids by derivatization followed by HPLC (133) 408

Dinitroxylenes

LC of dinitro-*p*-xylenes (131) 425

Dinoracetylmethadol

Simultaneous determination of acetylmethadol and its major metabolites by GLC (135) 205

Diode array detectors

Diode array detector in LC. II. Enhanced sensitivity via first derivative ($dA/d\lambda$) chromatograms (133) 352

Diosgenin

Analysis of Fenugreek sapogenins by GLC (133) 222

Dioxan.

Rapid method for the simultaneous determination of 1,4-dioxan and its major metabolite, β -hydroxyethoxyacetic acid, concentrations in plasma and urine (133) 263

Dipeptides

Chromatographic analysis of phosphonic analogues of dipeptides (in French) (132) 556

Diphenylhydantoin

Simultaneous determination of anticonvulsant drugs by GLC (131) 341

Diphenylhydantoin

Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332

Diphenylhydantoin

TLC analysis of phenytoin and its hydroxy metabolites (137) 231

Diphenylhydantoin

Solvent suppression of the decomposition of phenobarbital during on-column methylation with trimethylanilinium hydroxide (138) 413

Diphosphate

Gel and ion-exchange chromatographic purification of the reaction products between diphosphate and diphosphonate (134) 497

Diphosphonate

Gel and ion-exchange chromatographic purification of the reaction products between diphosphate and diphosphonate (134) 497

Dipropyl acetate

Sensitive GLC method for determination of valproic acid in biological fluids (137) 188

Dipropylacetic acid

GC determination of valproic acid in human plasma (132) 145

Disaccharide oximes

GLC of trimethylsilylated disaccharide oximes (135) 411

Disaccharides

Use of TLC in the separation of disaccharides resulting from digestion of chondroitin sulphates with chondroitinases (136) 342

Disopyramide

HPLC analysis of drugs in biological fluids. III. Analysis of disopyramide and its mono-*N*-dealkylated metabolite in plasma and urine (132) 503

Distribution coefficients

Partition of metallic elements between a cation-exchanger swollen with water and a solution of metallic chelates in a water-immiscible solvent. I. Dependence of the distribution coefficient on the nature and the concentration of the chelating agent (in French) (133) 15

Disulfiram

Quantitative analysis of disulfiram and its metabolites in human blood by GLC (133) 167

Dithiocarbamate derivatives

Significance of the rubidium bromide thermionic detector equipped with a gate

electrode in the analysis of halogenated dithiocarbamate derivatives (140) 86

Dopamine

HPLC assay of rat-brain dopamine and norepinephrine (137) 357

Doping

Estimation of chlorbutanol by electron capture GC (134) 178

Doping

Detection of sympathomimetic central nervous stimulants with special reference to doping. II. Comparative study of two adsorption chromatography methods using different XAD resins (136) 385

Doxorubicin hydrochloride

Determination of doxorubicin hydrochloride in pharmaceutical preparations using HPLC (131) 375

Doxycycline

Reversed-phase HPLC of doxycycline (140) 293

Drug monitoring

New GC assay for the quantification of methadone. Application in human and animal studies (131) 329

Drug monitoring

GC determination of cocaine in whole blood and plasma using a nitrogen-sensitive flame ionization detector (135) 141

Drug monitoring

Single- and two-step extraction and thin-layer detection procedures for benzoylecgonine (cocaine metabolite) alone or in combination with a wide variety of commonly abused drugs in urine screening programs (135) 385

Drug monitoring

Application of the extractive alkylation technique to the pentafluorobenylation of morphine (a heroin metabolite) and surrogates, with special reference to the quantitative determination of plasma morphine levels using mass fragmentography (136) 409

Drug monitoring

Separation and detection of phencyclidine in urine by GC (137) 135

Drugs, analgesic

Chromatographic analysis of azapropazone and related benzotriazines (131) 448

Drugs, analgesic

GC determination of propoxyphene and norpropoxyphene in plasma (132) 287

Drugs, analgesic

HPLC resolution of propoxyphene carbinol diastereomers (134) 187

Drugs, analgesic

Quantitative GC determination of nefopam in plasma (136) 154

Drugs, analgesic

Identification and quantitation of impurities from benorilate (Salipran) by HPLC (in French) (138) 193

Drugs, analgesic

Analysis of trace amounts of acetylsalicylic anhydride in acetylsalicylic acid (140) 131

Drugs, analgesic

GC method for the determination of dextropropoxyphene and nordextropropoxyphene in human plasma, serum and urine (140) 280

Drugs, anesthetic

GC determination of cocaine in whole blood and plasma using a nitrogen-sensitive flame ionization detector (135) 141

Drugs, anti-arrhythmic

HPLC analysis of drugs in biological fluids. III. Analysis of disopyramide and its mono-N-dealkylated metabolite in plasma and urine (132) 503

Drugs, anti-arrhythmic

HPLC analysis of drugs in biological fluids. V. Analysis of acebutolol and its major metabolite (138) 183

Drugs, antibiotic, see Antibiotics

Drugs, anticoagulant

Biochemical applications of a quantitative HPLC assay of warfarin and its metabolites (131) 365

Drugs, anticoagulant

Analysis of warfarin in plasma by HPLC (135) 149

Drugs, anticonvulsant

Simultaneous determination of anticonvulsant drugs by GLC (131) 341

Drugs, anticonvulsant

GLC determination of primidone in plasma (132) 140

Drugs, anticonvulsant

GC determination of valproic acid in human plasma (132) 145

Drugs, anticonvulsant

Analysis of medazepam, diazepam, and metabolites in plasma by GLC with electrolytic conductivity detection (136) 127

Drugs, anticonvulsant

Comparison of two GLC methods for the determination of nitrazepam in plasma (136) 259

Drugs, anticonvulsant

Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332

Drugs, anticonvulsant

Relative electron capture response of the 2-

chloroethyl derivatives of some barbituric acids and anticonvulsant drugs (137) 111

Drugs, anticonvulsant

Sensitive GLC method for determination of valproic acid in biological fluids (137) 188

Drugs, anticonvulsant

GLC of eight anticonvulsant drugs in plasma (137) 206

Drugs, anticonvulsant

Analysis of nitrazepam and its metabolites by HPLC (137) 215

Drugs, anticonvulsant

TLC analysis of phenytoin and its hydroxy metabolites (137) 231

Drugs, anticonvulsant

Rapid micro-method for the measurement of diazepam and desmethyldiazepam in blood plasma by GLC (137) 439

Drugs, anticonvulsant

Solvent suppression of the decomposition of phenobarbital during on-column methylation with trimethylanilinium hydroxide (138) 413

Drugs, anticonvulsant

Determination of clonazepam and its 7-amino metabolite in plasma and blood by GC-chemical ionization MS (139) 121

Drugs, antidepressant

Automated high-resolution GC analysis of psychotropic drugs in biological fluids using open-tubular glass capillary columns. I. Determination of nomifensine in human plasma (131) 347

Drugs, antidepressant

"Epoxide-diol" metabolic pathway of 5H-dibenzol α , δ cycloheptene in the rat. Studies by GC and MS (131) 430

Drugs, antidepressant

Assay of human plasma for nortriptyline by radioacetylation and TLC (132) 45

Drugs, antidepressant

Quantitative determination of amitriptyline and nortriptyline in plasma by HPLC (132) 155

Drugs, antidepressant

Combined TLC and GLC identification of tricyclic antidepressants in urine (132) 237

Drugs, antidepressant

Determination of (+)-3R,(4S)-3-(4-methoxyphenoxy)methyl-1-methyl-4-phenylpiperidine hydrochloride (FG 4963) in biological fluids using competition for adsorption to glass (133) 147

Drugs, antidepressant

Isotopic fractionation in TLC (133) 281

Drugs, antidepressant

Simultaneous determination of plasma amitriptyline and nortriptyline as

trichloroethyl carbamates by electron-capture GC (133) 367

Drugs, antidepressant

Assay of tricyclic structured drugs and their metabolites in urine by HPLC (134) 182

Drugs, antidepressant

Determination of therapeutic levels of butriptyline in plasma by GLC (134) 524

Drugs, antidepressant

CLC of tricyclic antidepressants (138) 431

Drugs, antidepressant

Rapid, sensitive GLC method for determination of amitriptyline and nortriptyline in plasma using a nitrogen-sensitive detector (133) 437

Drugs, antihypertensive

Determination of debrisoquine and its 4-hydroxy metabolite in biological fluids by GC with flame-ionization and nitrogen-selective detection (133) 161

Drugs, antihypertensive

Determination of hydralazine in tablets by GC (137) 431

Drugs, antihypertensive

Identification of selected antihypertensive drugs by TLC (138) 111

Drugs, anti-inflammatory

Determination of the anti-inflammatory agent carprofen, (D,L)-6-chloro- α -methylcarbazole-2-acetic acid, in blood by HPLC (136) 391

Drugs, anti-inflammatory

Determination of (d,l)-6-chloro- α -methylcarbazole-2-acetic acid in plasma by HPLC (140) 310

Drugs, antimycotic

Extractive alkylation of biological samples of cloquinoxol or chloroquinol and determination by electron capture GC (140) 170

Drugs, antithyroid

Quantitative detection of estrogens and antithyroid drugs by TLC and HPTLC in animal tissue (in German) (134) 351

Drugs, antituberculous

Determination of prothionamide and its sulphoxide metabolite in physiological fluids by quantitative TLC (132) 562

Drugs, antituberculous

Determination of hydrazine metabolites of isoniazid in human urine by GC (138) 165

Drugs, antitussive

GLC determination of dextromethorphan in serum and brain (140) 270

Drugs, cytostatic

Determination of doxorubicin hydrochloride in

pharmaceutical preparations using HPLC (131) 375

Drugs, cytostatic

Simple and sensitive GLC method for the determination of *o,p'*-DDD in biological fluids (133) 218

Drugs, cytostatic

Analysis by HPLC of 9- β -D-arabinofuranosyladenine 5'-triphosphate levels in murine leukemia cells (133) 335

Drugs, cytostatic

HPLC analysis of ftorafur and its metabolites in biological fluids (134) 219

Drugs, cytostatic

Determination of 2,4-diamino-5-(3,4-dichlorophenyl)-6-methylpyrimidine (BW 197U) in human plasma (137) 449

Drugs, cytostatic

HPLC of Catharanthus alkaloids (139) 203

Drugs, hypnotic

Routine analysis of barbiturates and some other hypnotic drugs in the blood plasma as an aid to the diagnosis of acute poisoning (131) 131

Drugs, hypnotic

Rapid micro-method for the measurement of ethchlorvynol in blood plasma and in urine by GLC (137) 119

Drugs, hypnotic

GC determination of hexobarbital and its metabolites from biological material (in German) (139) 191

Drugs, hypnotic

Sensitive TLC method for urine screening of barbiturates (140) 71

Drugs, hypnotic

GC determination of barbiturates by extractive alkylation and support coated open tubular column separation (140) 165

Drugs, hypoglycaemic

Determination of metformin in biological fluids by derivatization followed by HPLC (133) 408

Drugs, hypolipidaemic

HPLC analysis of drugs in biological fluids. IV. Determination of clofibrinic acid (137) 145

Drugs, hypolipidaemic

Use of HPLC to measure plasma concentrations of *p*-chlorophenoxyisobutyric acid after administration of clofibrate to humans (137) 218

Drugs, laxative

Determination of dihydroxydianthrone by densitometry after TLC (132) 363

Drugs, psychostimulant

Combined GLC-MS analysis of pemoline in biological samples (134) 415

Drugs, psychostimulant

GC determination of pemoline as 5-phenyl-2,4-oxazolidinedione in human urine (137) 333

Drugs, psychostimulant

GC determination of pemoline in biological fluids using electron capture detection (137) 343

Drugs, psychostimulant

TLC determination of pemoline in urine after ingestion of therapeutic doses (in German) (140) 134

Drugs, spasmolytic

Determination of papaverine in blood samples by GLC and mass fragmentography (133) 153

Drugs, spasmolytic

Retention behaviour of a bonded reversed phase in a HPLC assay of serum theophylline (135) 419

Drugs, tranquilizers

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Drugs, tranquilizers

Quantitative GC analysis of flunitrazepam in human serum with electron-capture detection (133) 319

Drugs, tranquilizers

Determination of clorazepate and its major metabolites in blood and urine by electron capture GLC (135) 123

Drugs, tranquilizers

Rapid and sensitive electron-capture GC method for the determination of pinazepam and its metabolites in human plasma, urine and milk (135) 133

Drugs, tranquilizers

Analysis of medazepam, diazepam, and metabolites in plasma by GLC with electrolytic conductivity detection (136) 127

Drugs, tranquilizers

Comparison of two GLC methods for the determination of nitrazepam in plasma (136) 259

Drugs, tranquilizers

Analysis of nitrazepam and its metabolites by HPLC (137) 215

Drugs, tranquilizers

Rapid micro-method for the measurement of diazepam and desmethyl diazepam in blood plasma by GLC (137) 439

Drugs, tranquilizers

An ultramicro HPLC method for assaying ion-pair species of benactyzine (140) 300

Dual detection

Parallel flame ionization detection-total ion current recording in capillary GC-chemical ionization MS (132) 249

Dyes

Electrophoretic behaviour of congo red dyes in aqueous dimethylformamide containing an electrolyte (132) 175

Dyes

Polyacrylamide gel electrophoresis of water-soluble coal-tar dyes (132) 566

Dyes

TLC of some cyanine dyes (135) 221

Dyes

TLC of Sudan dyes (136) 353

Dyes

Isoelectric focusing as a puzzle (137) 171

E**Electrolytic conductivity detector**

Electrolytic conductivity detector as an element-selective GC detector (134) 1

Electron-capture detector

Destructive and non-destructive models of the coulometric electron-capture detector (137) 245

Electron-capture detector combined with a capillary column

Performance characteristics of a system containing a capillary column and an electron-capture detector (131) 404

Electron capture detectors

Pulse-modulated electron capture detection with nitrogen carrier gas (134) 25

Electropherograms, evaluation

Fluorescence photometry of thin-layer chromatograms and electropherograms (133) 49

Electrophoresis

Convection in continuous-flow electrophoresis (140) 187

Elemental analysis

Continuous elemental analysis of nitrogen-containing substances by the use of GC (131) 285

Endrin

Isolation and determination of chlorinated organic pesticides by TLC and the application to toxicological analysis (131) 275

Enzyme detector

Continuous-flow enzyme detector for LC (134) 91

Enzymes

Purification of β -N-acetyl-D-glucosaminidase of the horseshoe crab by affinity chromatography (136) 141

Enzymes

Polyacrylamide gradient electrophoresis for protein purification on the milligram scale (137) 69

Enzymes

Quantitative TLC assay for the β -neogargarotetraose hydrolase of *Pseudomonas atlantica* (137) 234

Enzymes

Isolation of synthetic enzyme-dextran conjugates by chromatography on concanavalin A-Sepharose (137) 468

Enzymes

Purification of α -L-fucosidase from various sources by affinity chromatography (139) 283

Enzymes

Use of ω -aminoethyl-Sepharose in the fractionation of *Escherichia coli* B aminoacyl-tRNA synthetases (139) 331

Enzyme-selective detector systems

Enzyme-selective detector systems for HPLC (134) 83

Epichlorohydrin

Investigation of the reaction of epichlorohydrin with 1-butanol by gel chromatography (139) 141

Epilim

GC determination of valproic acid in human plasma (132) 145

Epoxide hydratase

GC and mass fragmentographic assays of carcinogenic polycyclic hydrocarbon epoxide hydratase activity (134) 323

Equine estrogens

TLC system for the semi-quantitative analysis of the ratio of α - and β -dihydroequilin in the diol fraction of equine estrogen conjugates (135) 523

Ergot alkaloids

Trace enrichment techniques in reversed-phase HPLC (136) 63

Erythromycin

Erythromycin series. V. Quantitative analysis of cladinose and methylcladinose by densitometry of thin-layer chromatograms (132) 309

Erythromycin

Simple TLC identification procedure for erythromycin base, stearate, estolate and ethylsuccinate (133) 239

Erythromycin

Erythromycin series. IV. TLC of erythromycin, erythromycin oxime, erythromcyclamine and their acyl derivatives (133) 415

Essential oils

Whisker-walled open-tubular glass columns in GC. III. Applications (132) 231

Esterase activity

Determination of paraoxon by combined bovine liver esterase inhibition and GLC (138) 423

Estrogen conjugates

Separation of estrogen glucuronides, sulphates and phosphates on ion-exchange cellulose by HPLC (135) 305

Estrogenic compounds

HPLC separation of pharmaceutical compounds using a mobile phase containing silver nitrate (136) 337

Estrogens

Chromatographic separation of androgens, estrogens and progestogens on hydroxyalkoxypropyl-Sephadex (Lipidex) (133) 412

Estrogens

Quantitative detection of estrogens and antithyroid drugs by TLC and HPTLC in animal tissue (in German) (134) 351

Estrogens

TLC system for the semi-quantitative analysis of the ratio of α - and β -dihydroequilin in the diol fraction of equine estrogen conjugates (135) 523

Ethanolamine plasmalogen

TLC resolution of molecular species of ethanolamine plasmalogen quantitatively unique to myelin (135) 229

Ethchlorvynol

Rapid micro-method for the measurement of ethchlorvynol in blood plasma and in urine by GLC (137) 119

Ethers

Behaviour of ethers. VII. Principle of determination of the polar effect constants (in French) (133) 7

Ethosuccinimide

Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332

Ethosuximide

Simultaneous determination of anticonvulsant drugs by GLC (131) 341

Ethoxyquin

Nondestructive distinction between aflatoxin B₁ and ethoxyquin in TLC (132) 115

Ethylhexanol

Evaluation of solvent properties. A comparison of esters of 2-ethylhexanol (133) 190

Ethylphenols

Quantitative GC analysis on support-coated open tubular capillary columns. I. Analysis of isomeric ethylphenols (140) 245

Ethynyl estradiol

Simultaneous determination of Trenbolone acetate and ethynyl estradiol in food by combined TLC-GC (in French) (136) 165

Exchangers, chelating

Preparation of chelating exchangers with a polysaccharide network and low cross-linkage (131) 91

F**Fats**

Computer processing of fatty acid analysis data (131) 121

Fatty acid methyl esters

Silar 10 C, Silar 9 CP, SP 2340 and OV-275 in the GLC of fatty acid methyl esters on packed columns. Chromatographic characteristics and molecular structures (135) 93

Fatty acid methyl esters

SP 2340 in the glass capillary chromatography of fatty acid methyl esters (136) 311

Fatty acids

Computer processing of fatty acid analysis data (131) 121

Fatty acids

Fatty acids. XIII. The GLC behaviour of dimethylene-interrupted methyl *cis*-octadecenoates (131) 239

Fatty acids

Whisker-walled open-tubular glass columns in GC. III. Applications (132) 231

Fatty acids

Retention behaviour of a porous styrene-divinylbenzene copolymer in the separation of fatty acids and related compounds (138) 17

Fatty acids

Fatty acids. XVII. Chromatographic properties of all isomeric C₁₈ furan esters (138) 373

Fatty acids

Fatty acids. XVIII. GLC behaviour of unsaturated furan esters (138) 446

Fatty acids

GC determination of the volatile fatty acids (C₁-C₉) including lactic acid after conversion into their benzyl esters by phenyldiazomethane. Determination of the acids in silages (in German) (140) 29

Fatty acids, acetylenic

Fatty acids. XV. TLC behaviour of acetylenic fatty esters on silicic acid (136) 178

Fatty acids, alicyclic

GC retention characteristics of ω -alicyclic fatty acids (136) 323

Fatty alcohols, ethoxylated

Determination of alkyl ethoxylate mixtures by programmed multiple development TLC (135) 165

Felypressin

Separation of nonapeptides by reversed-phase HPLC (132) 27

Felypressin

Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429

Fenitrothion

An *in situ* fluorimetric method for the detection and quantitative analysis of fenitrothion, its breakdown products and other amine-generating compounds (132) 315

Fenitrothion

Use of Amberlite XAD-2 resin for the quantitative recovery of fenitrothion from water: A preservation technique (139) 386

Fetoprotein

Purification of α -fetoprotein from rat amniotic fluid by gel filtration (137) 471

FG 4963

Determination of (+)-3*R*,(4*S*)-3-[(4-methoxyphenoxy)methyl]-1-methyl-4-phenylpiperidine hydrochloride (FG 4963) in biological fluids using competition for adsorption to glass (133) 147

Film thickness

Measurement of the average thickness of the film of stationary phase in dynamically coated glass capillary columns for GC (138) 7

Flame ionization detection-total ion current recording

Parallel flame ionization detection-total ion current recording in capillary GC-chemical ionization MS (132) 249

Flavonoids

Separation and quantification of flavonoids on HPTLC silica gel 60 plates (in German) (140) 322

Flow-impedance bridge detector

Properties of the flow-impedance bridge detector (138) 1

Flow splitter

Dynamical flow splitter for use in preparative-scale GC (in German) (139) 249

Flunitrazepam

Quantitative GC analysis of flunitrazepam in human serum with electron-capture detection (133) 319

Fluorescence detection

Use of fluorescence detection in HPLC (134) 107

Fluorescence photometry

Fluorescence photometry of thin-layer chromatograms and electropherograms (133) 49

Fluorescence spectrophotometer

Fluorescence detector for HPLC (134) 121

Fluorometer

Improved miniature flow fluorometer for LC (136) 213

Folate-binding protein

Difference between free and ligand-bound folate-binding protein in cow's milk concerning affinity for chromatographic gels (134) 517

Folithion

Use of Amberlite XAD-2 resin for the quantitative recovery of fenitrothion from water: A preservation technique (139) 386

Foodstuffs, fatty

Determination of organochlorine insecticide residues in fatty foodstuffs using a clean-up technique based on a single column of activated alumina (137) 405

Formyl pyruvate

Direct spectrophotometric TLC for determining malondialdehyde and β -formyl pyruvate produced by the periodate oxidation of some deoxy sugars (131) 464

Ftorafur

HPLC analysis of ftorafur and its metabolites in biological fluids (134) 219

Fucosidase

Purification of α -L-fucosidase from various sources by affinity chromatography (139) 283

Fungicides

TLC separation of several chloro- and methyl-substituted 2-aminopyridines (134) 238

Furan esters

Fatty acids. XVII. Chromatographic properties of all isomeric C₁₈ furan esters (138) 373

Furan esters

Fatty acids. XVIII. GLC behaviour of unsaturated furan esters (138) 446

G

Gallium complexes

Influence of temperature and degree of resin crosslinking on the anion exchange of phosphate complexes of Ga(III) and In(III) (134) 285

Gangliosides

HPLC of glycosphingolipids (with special reference to gangliosides) (136) 233

Gangliosides

TLC of gangliosides (137) 481

Gas-adsorption chromatography

Effects of surface heterogeneity in non-linear and non-equilibrium gas-adsorption chromatography (137) 1

Gas adsorption chromatography

Cluster expansion for retention volume in adsorption GC. Adsorption of hydrocarbons on graphite (139) 237

Gas chromatography-chemical ionization mass spectrometry

Parallel flame ionization detection-total ion current recording in capillary GC-chemical ionization MS (132) 249

Gas chromatography, computer-assisted

Computer-assisted prediction of GC separations (134) 249

Gas chromatography, preparative-scale

Dynamical flow splitter for use in preparative-scale GC (in German) (139) 249

Gas-solid chromatographic systems

Some remarks on the characterization of GSC systems (133) 349

Gel-permeation chromatograph coupled to a capillary viscometer

Coupling of a gel-permeation chromatograph and an automatic capillary viscometer. I. Influence of the column efficiency (132) 187

Gel permeation chromatography

Concentration effects in GPC. I. Polymer solution properties (134) 263

Gel permeation chromatography

Solute-gel interactions in GPC of small molecules in organic media (135) 470

Gel permeation chromatography

Simple and efficient method of zone spreading correction in GPC (139) 225

Gentamicin C-complex

Separation of gentamicin C-complex into five components by Craig distribution (131) 191

Gentisic acid

Quantitation of patulin pathway metabolites using GLC (132) 17

Geraniol

Production of citral from geraniol. II. Capillary GC-MS investigation of two different oxidation reactions using a graphite porous-layer open-tubular column with a large coating ratio of polar liquid phase (138) 173

Germicides

Separation of homologous alkylbenzyltrimethylammonium chlorides and alkylpyridinium halides by HPLC (134) 459

Glass capillaries

Dynamic coating of glass capillaries with polar phases and Silanox (136) 308

Glucagon

Comparison of non-biospecific effects in immunoaffinity chromatography using cyanogen bromide and bifunctional oxirane as immobilising agents (135) 427

Glucosides

HPLC of iridoid and secoiridoid glucosides (138) 453

Glutethimide

Routine analysis of barbiturates and some other hypnotic drugs in the blood plasma as an aid to the diagnosis of acute poisoning (131) 131

Glycerides

HPLC analysis of partial glycerides and other technical lipid mixtures (139) 61

Glyceryl-CPG

Determination of protein molecular weights in denaturing solvents using glyceryl-CPG (132) 399

Glycine

Separation of ¹⁴C-labeled glycolate pathway metabolites from higher plant photosynthate (133) 396

Glycoflavones

Separation of isomeric glycoflavones by HPLC (136) 174

Glycolate pathway metabolites

Separation of ¹⁴C-labeled glycolate pathway metabolites from higher plant photosynthate (133) 396

Glycolipids

Improved TLC method for the separation of major phospholipids and glycolipids from plant lipid extracts and phosphatidyl glycerol and bis(monoacylglyceryl) phosphate from animal lipid extracts (140) 179

Glycosaminoglycans

Simple procedure for combined GC analysis of neutral sugars, hexosamines and alditols. Determination of degree of polymerization of

oligo- and polysaccharides and chain weights of glycosaminoglycans (139) 303

Glycosides

GC of methyl glycosides as their trimethylsilyl ethers. The methanolysis and re-N-acetylation steps (133) 133

Glycosphingolipids

HPLC of glycosphingolipids (with special reference to gangliosides) (136) 233

Gramicidin

HPLC analysis of gramicidin, a polypeptide antibiotic (140) 174

Guanidine

GC determination of methylguanidine, guanidine and agmatine as their hexafluoroacetylacetonates (140) 47

Guanine

Detection reagent for adenine, guanine, uracil, cytosine and their alkylated bases, nucleotides and nucleosides on thin-layer plates (132) 121

Guanines

Separation of alkylated guanines, adenines, uracils and cytosines by TLC (131) 265

H

Haemopexin

Affinity chromatography of serum haemopexin (131) 453

Halides

Use of complex formation equilibria in the analytical isotachopheresis of strong electrolyte ions. Separation of halides and sulphates (137) 83

Haloalkanes

Thermodynamics of molecular association. Tri-*n*-alkylamine-chloroalkane systems (139) 1

Halocarbons

Sampling and determination of halocarbons in ambient air using concentration on porous polymer (134) 375

Halofenate

Determination of various drugs in rodent diet mixtures (131) 357

Halohydroborates

Separation of halohydroborates of the type $B_{10}H_{10-n}X_n^{2-}$ by high-voltage ionophoresis (in German) (139) 291

Head-space analyses

Nanogram techniques. I. Injection without

losses on capillary GLC columns (in German) (136) 13

Headspace analysis

Vapor pressure of 2,4,6-trinitrotoluene by a GC headspace technique (133) 83

Head-space gas analysis

Quantitative head-space gas analysis by the standard additions method. Determination of hydrophilic solutes in equilibrated gas-aqueous liquid systems (136) 37

Headspace volatiles

Concentration of headspace, airborne and aqueous volatiles on Chromosorb 105 for examination by GC and GC-MS (135) 49

Heat of adsorption

GC determination of the heat of adsorption of benzene and its monohalogeno derivatives adsorbed on montmorillonite-pyridinium (in French) (133) 184

Heat of vaporization

Measurement of heats of vaporization by means of a gas chromatograph (135) 13

Height equivalent to a theoretical plate

Influence of the geometry of support materials on the capacity of an extraction chromatographic system. III. Influence of the exchange kinetics and the flow inhomogeneities on the height equivalent to a theoretical plate (in German) (135) 273

Heptafluorobutyl isobutyl esters

Amino acid analysis by GLC of N-heptafluorobutyl isobutyl esters. Complete resolution using a support-coated open-tubular capillary column (136) 113

Herbesser

Simple, sensitive and specific GC method for the quantification of diltiazem in human body fluids (138) 391

Herbicides

Detection of triazine herbicides in soil by a Hill-reaction inhibition technique after TLC (133) 420

Herbicides

Reversed-phase HPLC of some common herbicides (134) 216

Herbicides

Identification of eleven urea herbicides by TLC and GLC. I. Application to natural waters (in French) (134) 483

Herbicides

GLC method with electron-capture detection for the determination of residues of some phenoxyacetic acid herbicides in water as their 2,2,2-trichloroethyl esters (136) 105

Herbicides

Determination of hydrazine metabolites of isoniazid in human urine by GC (138) 165

Herbicides

Quantitative determination of the herbicide paraquat in human plasma by GC and MS methods (139) 311

Heroin

Application of the extractive alkylation technique to the pentafluorobenzoylation of morphine (a heroin metabolite) and surrogates, with special reference to the quantitative determination of plasma morphine levels using mass fragmentography (136) 409

Heterogeneity of the surface

Effects of surface heterogeneity in non-linear and non-equilibrium gas-adsorption chromatography (137) 1

Hexachlorophene

TLC of active compounds from ointments and suppositories followed by direct quantitative analysis by remission (in German) (131) 391

Hexobarbital

GC determination of hexobarbital and its metabolites from biological material (in German) (139) 191

Hexosamines

Separation of hexosamines, hexosaminotols and hexosamine-containing di- and trisaccharides on an amino acid analyser (134) 199

Hexosamines

Simple procedure for combined GC analysis of neutral sugars, hexosamines and alditols. Determination of degree of polymerization of oligo- and polysaccharides and chain weights of glycosaminoglycans (139) 303

Hexosaminotols

Separation of hexosamines, hexosaminotols and hexosamine-containing di- and trisaccharides on an amino acid analyser (134) 199

High-performance thin-layer chromatographic plates

Chromatography of Dns derivatives on pre-coated HPTLC plates (131) 109

Hippuric acid

Isotachophoretic analysis of mandelic acid, phenylglyoxylic acid, hippuric acid and methylhippuric acid in urine after occupational exposure to styrene, toluene and/or xylene (132) 469

Histamine

TLC of histidine, histamine and histidyl peptides at picomole level using a unique fluorogenic reaction with fluorescamine (131) 215

Histidine

TLC of histidine, histamine and histidyl peptides at picomole level using a unique

fluorogenic reaction with fluorescamine (131) 215

Histidyl peptides

TLC of histidine, histamine and histidyl peptides at picomole level using a unique fluorogenic reaction with fluorescamine (131) 215

Histones

Chromatography of histones on hydroxyapatite columns (137) 222

Homocystine

Artifacts in the GC analysis of some sulfur-containing amino acids (138) 223

Homologous esters

GC of homologous esters. X. Data prediction properties of a Rohrschneider-type scheme (135) 61

Homologous esters

GC of homologous esters. XI. Use of ester solutes in a Rohrschneider-type scheme for data prediction (135) 67

Hop resins

Development of a bonded weak anion-exchange packing suitable for the HPLC of hop resins (133) 97

Hormones

Quantitative determination of phytoecdysones as illustrated by application to species of *Helleborus* (131) 468

Hormones

Chromatographic separation of androgens, estrogens and progestogens on hydroxyalkoxypropyl-Sephadex (Lipidex) (133) 412

Hormones

Separation of estrogen glucuronides, sulphates and phosphates on ion-exchange cellulose by HPLC (135) 305

Hormones

Improved separation of some isomers and epimers of the pregnane series by TLC with repeated development (135) 481

Hormones

TLC system for the semi-quantitative analysis of the ratio of α - and β -dihydroequilin in the diol fraction of equine estrogen conjugates (135) 523

HP 505

GLC determination of 1,3-dihydro-3-phenylspiroisobenzofuran-1,4-piperidine, HP 505, in biological fluids using a nitrogen-specific detector (136) 401

Hydralazine

Determination of hydralazine in tablets by GC (137) 431

Hydrazine metabolites

Determination of hydrazine metabolites of isoniazid in human urine by GC (138) 165

Hydrazinophthalazine

Determination of hydralazine in tablets by GC (137) 431

Hydrocarbons

GC determination of trace amounts of hydrocarbons in the atmosphere of experimental biological containers (131) 179

Hydrocarbons

Whisker-walled open-tubular glass columns in GC. III. Applications (132) 231

Hydrocarbons

Chromatographic pulsed micro-reactor system for studying the kinetics of hydrocarbon conversions (133) 359

Hydrocarbons

Coordination polymers as adsorbents and stationary phases in GC. I. Polychromium(III) diphenylphosphinate (138) 337

Hydrocarbons

Adsorption isotherms of hydrocarbons on γ -alumina (138) 347

Hydrocarbons

Cluster expansion for retention volume in adsorption GC. Adsorption of hydrocarbons on graphite (139) 237

Hydrocarbons, aromatic

Surface-layer sorbents for group analysis of aromatic hydrocarbons in petroleum distillates (140) 319

Hydrocarbons, bicyclic aromatic

GC separation and identification of bicyclic aromatic hydrocarbons in kerosene (b.p. 200-280°) (137) 198

Hydrocarbons, chlorinated

Air sampling methods for *s*-tetrachloroethane and other related chlorinated hydrocarbons (137) 283

Hydrocarbons, polynuclear

GC behaviour of some polynuclear hydrocarbons on cadmium chloride columns modified with Carbowaxes (135) 359

Hydrocarbon stationary phases

Hydrocarbon stationary phases for GLC (132) 181

Hydrochlorothiazide

Determination of hydrochlorothiazide in serum by HPLC (132) 91

Hydrocortisone

TLC of active compounds from ointments and suppositories followed by direct quantitative analysis by remission (in German) (131) 391

Hydrocortisone acetate

TLC of active compounds from ointments and

suppositories followed by direct quantitative analysis by remission (in German) (131) 391

Hydrocortisone caproate

TLC of active compounds from ointments and suppositories followed by direct quantitative analysis by remission (in German) (131) 391

Hydrogen-atmosphere flame ionisation detector

Silicon detector for GC (140) 1

Hydrophilic solutes

Quantitative head-space gas analysis by the standard additions method. Determination of hydrophilic solutes in equilibrated gas-aqueous liquid systems (136) 37

Hydrophobic interaction chromatography

Hydrophobic interaction chromatography on uncharged Sepharose derivatives. Effects of neutral salts on the adsorption of proteins (131) 99

Hydroxy acids

Anion-exchange chromatography of dicarboxylic hydroxy acids (134) 337

Hydroxyamphetamine

Direct GLC analysis of *N*-hydroxyamphetamine, a metabolite of amphetamine (135) 200

Hydroxyanisole, butylated

Separation of butylated hydroxyanisole isomers on Sephadex LH-20 (132) 356

Hydroxybenzoic acid

Quantitation of patulin pathway metabolites using GLC (132) 17

Hydroxycarbofuran

Detection of carbofuran and metabolites directly or as their heptafluorobutryl derivatives using GLC or HPLC with different detectors (138) 143

Hydroxychalcones

Separation and identification of some hydroxychalcones and their derivatives (138) 243

Hydroxyethoxyacetic acid

Rapid method for the simultaneous determination of 1,4-dioxan and its major metabolite, β -hydroxyethoxyacetic acid, concentrations in plasma and urine (133) 263

Hydroxyindoleacetic acid

Mass fragmentographic determination of 5-hydroxytryptamine and 5-hydroxyindole-3-acetic acid in brain tissue using deuterated internal standards (134) 407

2-(4-Hydroxyphenyl)-2-phenylpropane

Elution behaviour of some derivatives of 2-(4-hydroxyphenyl)-2-phenylpropane on Sephadex LH-20 in methanol and *N,N*-dimethylformamide (132) 99

Hydroxyquinolines

Extractive alkylation of biological samples of clioquinol or chloroquinaldol and determination by electron capture GC (140) 170

Hydroxytryptamine

Mass fragmentographic determination of 5-hydroxytryptamine and 5-hydroxyindole-3-acetic acid in brain tissue using deuterated internal standards (134) 407

Hypoxanthine arabinosides

HPLC of adenine and hypoxanthine arabinosides (139) 370

I**Imidazoles**

TLC of histidine, histamine and histidyl peptides at picomole level using a unique fluorogenic reaction with fluorecamine (131) 215

Iminostilbene

Epoxide-diol pathway in the metabolism of 5*H*-dibenzol*b*,*f*azepine (iminostilbene) (134) 307

Imipramine

Combined TLC and GLC identification of tricyclic antidepressants in urine (132) 237

Imipramine

Isotopic fractionation in TLC (133) 281

Imipramine

Assay of tricyclic structured drugs and their metabolites in urine by HPLC (134) 182

Immunoglobulins

Isolation of serum albumin and immunoglobulins by chromatography on Con-A Sepharose and Sephadex G-150 (135) 193

Indanols

Separation of monohydric alkylphenols by GC. II (137) 425

Indium complexes

Influence of temperature and degree of resin crosslinking on the anion exchange of phosphate complexes of Ga(III) and In(III) (134) 285

Indole acids

Chromatographic behaviour of some indole acids on a Sephadex column in water and in the presence of salts (131) 205

Indolealkylamines

Determination of indolealkylamines after selective derivatisation (in German) (134) 385

Indole derivatives

The van Urk-Salkowski reagent: A sensitive and specific chromogenic reagent for silica gel TLC detection and identification of indole derivatives (132) 267

Indomethacin

TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489

Infrared absorption photometry

Selective IR detectors for chromatography (134) 131

Infrared detection

Detection by IR spectrometry in HPLC (in French) (132) 295

Injection of micro-aliquots

GC analysis of lipids with the injection of aliquots of less than 0.05 μ l from small samples (132) 543

Ink

GC-MS analysis of tannin hydrolysates from the ink of ancient manuscripts (XIth to XVIth century) (134) 433

Inorganic anions

Chromatographic behaviour of inorganic anions on a Sephadex G-15 column (133) 173

Inorganic anions

Paper electrophoretic study of ion-pair formation. XIII. Survey of the ion-pair forming properties of monovalent inorganic anions (135) 256

Insecticides

Separation of rotenoids by HPLC (134) 207

Insecticides

Determination of rotenone in pesticide formulations and the separation of six rotenoids by reversed-phase HPLC (134) 210

Insecticides

Separation, detection and densitometric determination of chlorinated insecticides on silica gel and aluminum hydroxide papers (135) 235

Insecticides

Detection of carbofuran and metabolites directly or as their heptafluorobutryl derivatives using GLC or HPLC with different detectors (138) 143

Insecticides

Determination of paraoxon by combined bovine liver esterase inhibition and GLC (138) 423

Insecticides

Use of Amberlite XAD-2 resin for the

quantitative recovery of fenitrothion from water: A preservation technique (139) 386

Insecticides

Simplified method for the determination of residues of carbofuran and its metabolites in crops using GLC-mass fragmentography (140) 209

Insecticides, organochlorine

Determination of organochlorine insecticide residues in fatty foodstuffs using a clean-up technique based on a single column of activated alumina (137) 405

Interstitial volume

Determination of the interstitial volume of ion-exchange columns (134) 191

Iodide

Complete separation of iodotyrosine-iodohistidine-iodide mixtures on thin-layer plates with a single-solvent system (134) 246

Iodohistidines

Complete separation of iodotyrosine-iodohistidine-iodide mixtures on thin-layer plates with a single-solvent system (134) 246

Iodotyrosines

Complete separation of iodotyrosine-iodohistidine-iodide mixtures on thin-layer plates with a single-solvent system (134) 246

Ion-cluster technique

Application of an ion-cluster technique to the analysis of endogenous hydroxylated compounds. I. Preparation of a doublet by use of a mixture of trimethylsilylimidazole (TSIM) and TSIM-d₃ (135) 109

Ion-exchange columns

Determination of the interstitial volume of ion-exchange columns (134) 191

Ion exchanger

Lanthanum tellurate, a new inorganic ion exchanger (136) 176

Ion-exchange resins, optically active

Preparation of optically active ion-exchange resins and resolution of racemates (135) 455

Ion exchangers

Crystalline insoluble acid salts of tetravalent metals. XXVII. Ion exchange of trivalent cations on ionic forms of crystalline zirconium phosphate with large interlayer distances (132) 477

Ion exchangers

Partition of metallic elements between a cation-exchanger swollen with water and a solution of metallic chelates in a water-immiscible solvent. I. Dependence of the distribution coefficient on the nature and the concentration of the chelating agent (in French) (133) 15

Ion exchangers

Isoelectric chromatography: a new approach in the use of ion exchangers for protein purification (135) 511

Ionization detector

Ionization detector for GC with switchable selectivity for carbon, nitrogen and phosphorus (134) 65

Ionophoresis, high-voltage

High-voltage paper ionophoresis in temperature gradients and non-aqueous solutions (in German) (135) 323

Ion-pair formation

Paper electrophoretic study of ion-pair formation. XIII. Survey of the ion-pair forming properties of monovalent inorganic anions (135) 256

Iridoid glucosides

HPLC of iridoid and secoiridoid glucosides (138) 453

Iron

Adsorption of trivalent iron in the ionic and colloidal states on silica gel impregnated with manganese dioxide (140) 77

Iron porphyrins

Benzidine substitute visualizing agents for iron porphyrins (138) 220

Isochromans

Chromatographic behaviour of diastereomers. III. TLC behaviour of diastereomeric 4-substituted 6,7-dialkoxy-3-aryl-tetrahydroisoquinolines and -isochromans (132) 73

Isoelectric focusing

Carrier ampholyte distribution in isoelectric focusing (131) 223

Isoelectric focusing

Isoelectric focusing as a puzzle (137) 171

Isoelectric focusing

Isoelectric focusing in cylinders of granulated gel (138) 25

Isoelectric focusing

Isoelectric focusing as a method for the characterization of ampholytes. II. pH measurements in solvent mixtures used in density-gradient isoelectric focusing (140) 149

Isohydric solvents

Isohydric solvents in LSCC. Importance for the reproducibility of chromatographic separations and application to the experimental determination of mobile phase polarity (139) 21

Isoniazid

Determination of hydrazine metabolites of isoniazid in human urine by GC (138) 165

Isotheric heat of adsorption

Determination of the isotheric heat of adsorption by adsorption GC (131) 1

Isotachopheresis in narrow-bore tubes

Isotachopheresis in narrow-bore tubes. Influence of the diameter of the separation compartment (132) 205

Isotachopheresis, preparative

Preparative plasma protein fractionation by isotachopheresis in Sephadex columns (132) 437

Isotopic fractionation

Isotopic fractionation in TLC (133) 281

Isovaline

GC resolution of DL-isovaline (132) 152

Itaconic acid

Itaconic acid carrier ampholytes for isoelectric focusing (134) 279

K**Kerosene**

GC separation and identification of bicyclic aromatic hydrocarbons in kerosene (b.p. 200-280°) (137) 198

Ketocarbofuran

Detection of carbofuran and metabolites directly or as their heptafluorobutyryl derivatives using GLC or HPLC with different detectors (138) 143

Ketones

Separation and quantitative determination of traces of carbonyl compounds as their 2,4-dinitrophenylhydrazones by HPLC (136) 271

Ketones, cyclic

GC determination of cyclic amines, ketones and alcohols, possible metabolites of sweet sulphamates (136) 318

Ketoses

TLC of the principal ketoses (in French) (132) 339

Krebs-cycle acids

GC of the pyrazoline derivative of trimethyl acetonate (132) 148

L**Lactic acid**

GC determination of the volatile fatty acids (C₁-C₅) including lactic acid after conversion into their benzyl esters by phenyldiazomethane. Determination of the acids in silages (in German) (140) 29

Lanthanum tellurate

Lanthanum tellurate, a new inorganic ion exchanger (136) 176

Lead chelates

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Lead chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Levopimaric acid

GLC of resin acid esters (136) 245

Librium

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Ligand exchange

Ligand-exchange chromatography of racemates. IV. Influence of stationary-complex structure on the mechanism of ligand exchange (131) 65

Linuron

Comparison of electron-capture and electrolytic conductivity detection for the GLC analysis of some perfluoro derivatives of four agricultural chemicals (135) 117

Lipids

Dry CC of phospholipids (131) 157

Lipids

Preparation of plates with a permanent adsorbent layer and their application in the analytical TLC of lipids (132) 195

Lipids

GC analysis of lipids with the injection of aliquots of less than 0.05 µl from small samples (132) 543

Lipids

HPLC separation and quantitative analysis of synthetic phospholipids (133) 226

Lipids

Sensitive fluorogenic visualization reagent for the detection of lipids on thin-layer chromatograms (135) 226

Lipids

TLC resolution of molecular species of ethanolamine plasmalogen quantitatively unique to myelin (135) 229

Lipids

HPLC of glycosphingolipids (with special reference to gangliosides) (136) 233

Lipids

Long-chain phenols. VIII. Quantitative analysis of the unsaturated constituents of phenolic lipids by TLC-MS (136) 289

Lipids

Simple preparative and analytical TLC method for the rapid isolation of phosphatidic acid from tissue lipid extracts (137) 194

Lipids

HPLC analysis of partial glycerides and other technical lipid mixtures (139) 61

Lipids

Improved TLC method for the separation of major phospholipids and glycolipids from plant lipid extracts and phosphatidyl glycerol and bis(monoacylglyceryl) phosphate from animal lipid extracts (140) 179

Liquid chromatography, precision of measurements

Precision of contemporary LC measurements (138) 283

Liquid dispenser

Fast liquid-dispensing device for multi-column LC (139) 162

Liquid phases

Pluronics as liquid phases for capillary GLC (140) 257

Lithocholic acid

Isolation and purification of lithocholic acid metabolites produced by the intestinal microflora (133) 327

Longitudinal temperature gradients in liquid chromatography

Longitudinal temperature gradients in LC with a binary mobile phase (138) 329

Lypressin

Separation of nonapeptides by reversed-phase HPLC (132) 27

Lypressin

Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429

Lysinoalanine

Determination of lysinoalanine with an automatic amino-acid analyzer (135) 502

M**Macroporous sorbents**

Properties and use of the sorbent Spheron SDA in GC (133) 91

Malondialdehyde

Direct spectrophotometric TLC for determining malondialdehyde and β -formyl pyruvate produced by the periodate oxidation of some deoxy sugars (131) 464

Mandelic acid

Isotachophoretic analysis of mandelic acid, phenylglyoxylic acid, hippuric acid and methylhippuric acid in urine after occupational exposure to styrene, toluene and/or xylene (132) 469

Mandelic acid

Preparation of optically active ion-exchange resins and resolution of racemates (135) 455

Marihuana smoke condensate

Cannabis. XVI. Constituents of marihuana smoke condensate (131) 422

Mass spectrometer

Microcomputer-directed mass spectrometer as a compound-selective detector for GC (134) 39

Mass spectrometer

Mass spectrometer as a substance-selective detector in chromatography (134) 147

Medazepam

Analysis of medazepam, diazepam, and metabolites in plasma by GLC with electrolytic conductivity detection (136) 127

Melanosomes

Chromatographic separation of melanosomes (134) 230

Menadione

GC determination of the purity of vitamin K₃ (menadione) (139) 195

Meprobamate

Routine analysis of barbiturates and some other hypnotic drugs in the blood plasma as an aid to the diagnosis of acute poisoning (131) 131

Meprobamate

TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489

Mercaptopurine

Quantitative determination of metabolites of 6-mercaptopurine in biological materials. II. Advantages of a variable-wavelength HPLC spectrophotometric detector for the determination of 6-thiopurines (137) 61

Mercury chelates

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Mercury chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Metal chelates

Coupled GC-atomic absorption spectrometry (134) 159

Metal chelates

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Metal chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Metal complexes

Gel chromatography of β -diketones and their metal complexes. VI. Elution behaviour of various β -diketones and their chromium(III) chelates on different gels (138) 79

Metal ions

Use of aqueous nitrite solutions in reversed-phase chromatography and liquid-liquid extraction (135) 249

Metal ions

Comparison of efficiency of cation-exchange resins in the chromatographic separation of metal ions with aqueous acetone-hydrochloric acid solution (137) 381

Metal ions

Adsorption of trivalent iron in the ionic and colloidal states on silica gel impregnated with manganese dioxide (140) 77

Metals

Postulated tetraphenylporphyrin-zinc tetraphenylporphyrin sandwich complex (132) 131

Metals

Partition of metallic elements between a cation-exchanger swollen with water and a solution of metallic chelates in a water-immiscible solvent. I. Dependence of the distribution coefficient on the nature and the concentration of the chelating agent (in French) (133) 15

Metals

TLC behaviour of metals on DEAE-cellulose in oxalic acid and mixed oxalic acid-hydrochloric acid media (139) 355

Metformin

Determination of metformin in biological fluids by derivatization followed by HPLC (133) 408

Methodol

Simultaneous determination of acetylmetadol and its major metabolites by GLC (135) 205

Methodone

New GC assay for the quantification of methodone. Application in human and animal studies (131) 329

Methaqualone

Routine analysis of barbiturates and some other hypnotic drugs in the blood plasma as an aid to the diagnosis of acute poisoning (131) 131

Methodichlorophen

Determination of 2,4-diamino-5-(3,4-dichlorophenyl)-6-methylpyrimidine (BW 197U) in human plasma (137) 449

Methoxyphenols

Separation of monohydric alkylphenols by GC. II (137) 425

Methoxypsoralen

Determination of 8-methoxypsoralen in plasma by electron capture GC (140) 157

Methsuccinimide

Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332

Methylated bases

Rapid, quantitative separation by HPLC of methylated bases in transfer RNA (133) 231

Methylcladinoside

Erythromycin series. V. Quantitative analysis of cladinoside and methylcladinoside by densitometry of thin-layer chromatograms (132) 309

Methylene group increments

Capillary GC of alkylbenzenes. II. Correlations between the structures and methylene group increments and differences in retention indices of isomers (135) 71

Methyl glycosides

GC of methyl glycosides as their trimethylsilyl ethers. The methanolysis and re-N-acetylation steps (133) 133

Methylguanidine

GC determination of methylguanidine, guanidine and agmatine as their hexafluoroacetylacetates (140) 47

Methylhippuric acid

Isotachophoretic analysis of mandelic acid, phenylglyoxylic acid, hippuric acid and methylhippuric acid in urine after occupational exposure to styrene, toluene and/or xylene (132) 469

Methylisoborneol

2-Methylisoborneol, improved synthesis and a quantitative GC method for trace

concentrations producing odor in water (132) 405

Methylnaphthoquinone

GC determination of the purity of vitamin K₃ (menadione) (139) 195

Methyl octadecenoate isomers

Fatty acids. XIII. The GLC behaviour of dimethylene-interrupted methyl *cis*-octadecenoates (131) 239

Methylpentynediol

GLC of methylpentynol carbamate and its metabolite 3-methylpentyne-3,4-diol (133) 267

Methylpentynol carbamate

GLC of methylpentynol carbamate and its metabolite 3-methylpentyne-3,4-diol (133) 267

Methylsalicylic acid

Quantitation of patulin pathway metabolites using GLC (132) 17

Methylthiouracil residues

GC determination of methylthiouracil residues in meat and organs of slaughtered animals (140) 266

Metoprine

Determination of 2,4-diamino-5-(3,4-dichlorophenyl)-6-methylpyrimidine (BW 197U) in human plasma (137) 449

Micro-adsorption detector

Micro-adsorption detector. I. Principles of operation and mechanism of response (133) 31

Microcomputer-directed mass spectrometer

Microcomputer-directed mass spectrometer as a compound-selective detector for GC (134) 39

Micro reactor, pulsed

Chromatographic pulsed micro-reactor system for studying the kinetics of hydrocarbon conversions (133) 359

Mobile phase, binary

Longitudinal temperature gradients in LC with a binary mobile phase (138) 329

Mobile phase containing silver nitrate

HPLC separation of pharmaceutical compounds using a mobile phase containing silver nitrate (136) 337

Mobile phase in high-performance liquid chromatography

Mechanisms of separation using the ternary mixture dichloromethane-ethanol-water in HPLC (132) 421

Mobile phase polarity

Isohydric solvents in LSCC. Importance for the reproducibility of chromatographic separations and application to the experimental determination of mobile phase polarity (139) 21

Moisture control system

Moisture control system for non-polar eluents

in HPLC. I. Reproducible retentions on alumina (133) 67

Molecular weight distribution

Coupling of a gel permeation chromatograph and an automatic capillary viscometer. II. Method for the determination of the molecular weight distribution and of the resolution factor (134) 273

Molecular-weight estimation

Molecular-weight estimation of proteins using Sepharose CL-6B in guanidine hydrochloride (140) 98

Monitor

Radioactivity monitor for HPLC (137) 271

Monoamines

Rapid determination of polyamines and some mono- and diamines in vegetable extracts (in French) (139) 381

Monosaccharides

Simple TLC technique for the separation of mono- and oligosaccharides (132) 172

Monovalent inorganic anions

Paper electrophoretic study of ion-pair formation. XIII. Survey of the ion-pair forming properties of monovalent inorganic anions (135) 256

Morphinans

Chemistry of opium alkaloids. VIII. Separation of opium alkaloids and related compounds by ion-pair HPLC (133) 382

Morphine

Application of the extractive alkylation technique to the pentafluorobenzoylation of morphine (a heroin metabolite) and surrogates, with special reference to the quantitative determination of plasma morphine levels using mass fragmentography (136) 409

Multi-column liquid chromatography

Fast liquid-dispensing device for multi-column LC (139) 162

Multicuvette system for liquid chromatography

Electronic system for chart recorder absorbance output of the multicuvette system for LC (132) 335

Muramic acid

Simple GLC technique for the analysis of muramic acid (135) 208

Mycotoxins

Investigation of the structure of mycotoxins and their quantitative analysis. IX. Sterigmatocystins (in German) (136) 182

Myelin

TLC resolution of molecular species of ethanolamine plasmalogen quantitatively unique to myelin (135) 229

N

Nalidixic acid

Analysis of urinary tract antibacterial agents in pharmaceutical dosage form by HPLC (132) 352

Naltrexone

Quantitative determination of naltrexone and naltrexone prodrugs by electron-capture GLC (137) 323

Nanogram techniques

Nanogram techniques. I. Injection without losses on capillary GLC columns (in German) (136) 13

Nanogram techniques

Nanogram techniques. II. Micro-scale preparative GC (in German) (136) 23

Naphthoquinones

Separation of naphthoquinones and lipophilic vitamins by gel chromatography and TLC (133) 345

Narcotic alkaloids

Nickel GC columns: An alternative to glass for biological samples (140) 9

Narcotic antagonists

Quantitative determination of naltrexone and naltrexone prodrugs by electron-capture GLC (137) 323

Nefopam

Quantitative GC determination of nefopam in plasma (136) 154

Neogargarotetraose hydrolase

Quantitative TLC assay for the β -neogargarotetraose hydrolase of *Pseudomonas atlantica* (137) 234

Nickel chelates

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Nickel chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Nickel gas chromatographic columns

Nickel GC columns: An alternative to glass for biological samples (140) 9

Niridazole

GLC determination of niridazole in biological fluids (131) 442

Nitrate

Microdetermination of nitrate by GC-MS technique with multiple ion detector (140) 41

Nitrazepam

Comparison of two GLC methods for the determination of nitrazepam in plasma (136) 259

Nitrazepam

Analysis of nitrazepam and its metabolites by HPLC (137) 215

Nitrioltriacetic acid

GC determination of nitrioltriacetic acid using a nitrogen-selective detector (136) 423

Nitrite

Nitrosamide-specific detector for use with HPLC (133) 59

Nitrite solutions

Use of aqueous nitrite solutions in reversed-phase chromatography and liquid-liquid extraction (135) 249

Nitrobenzene

GC study of binary diffusion of nitrobenzene and aniline in hydrogen (132) 344

Nitrogen

Ionization detector for GC with switchable selectivity for carbon, nitrogen and phosphorus (134) 65

Nitrogen compounds

Optimisation of the performance of a three-electrode thermionic detector for the detection of phosphorus, sulphur and nitrogen compounds by GC (136) 199

Nitrogen detector

Study of the nitrogen response mode of the thermionic rubidium silicate detector (133) 37

Nitrogen-phosphorus detector

Nitrogen-phosphorus detector and its applications in GC (134) 57

Nitrosamides

Nitrosamide-specific detector for use with HPLC (133) 59

Nitrosamines

Determination of N-nitrosoproline at the nanogram level (132) 37

Nitrosamines

Simple chemiluminescent detector for the screening of foodstuffs for the presence of volatile nitrosamines (137) 293

Nitrosamines

Photolysis of volatile nitrosamines at the picogram level as an aid to confirmation (140) 284

Nitrosocarbamates

Nitrosamide-specific detector for use with HPLC (133) 59

Nitrosoproline

Determination of N-nitrosoproline at the nanogram level (132) 37

Nomifensine

Automated high-resolution GC analysis of psychotropic drugs in biological fluids using open-tubular glass capillary columns. I. Determination of nomifensine in human plasma (131) 347

Nonapeptides

Separation of nonapeptides by reversed-phase HPLC (132) 27

Nonapeptides

Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429

Non-protein amino acids

Quantitative analysis of protein and non-protein amino acids by GLC (131) 233

Noracetylmethadol

Simultaneous determination of acetylmethadol and its major metabolites by GLC (135) 205

Noradrenaline

PC separation of noradrenaline and its major metabolites (139) 218

Nordextropropoxyphene

GC method for the determination of dextropropoxyphene and nordextropropoxyphene in human plasma, serum and urine (140) 280

Norepinephrine

HPLC assay of rat-brain dopamine and norepinephrine (137) 357

Norleucine

Norleucine: An internal standard for the basic column used in physiological amino acid analysis (139) 215

Norpropoxyphene

GC determination of propoxyphene and norpropoxyphene in plasma (132) 287

Norpseudoephedrine

GLC determination of pseudoephedrine and norpseudoephedrine in human plasma and urine (140) 275

Nortriptyline

Assay of human plasma for nortriptyline by radioacetylation and TLC (132) 45

Nortriptyline

Quantitative determination of amitriptyline and nortriptyline in plasma by HPLC (132) 155

Nortriptyline

Combined TLC and GLC identification of tricyclic antidepressants in urine (132) 237

Nortriptyline

Simultaneous determination of plasma amitriptyline and nortriptyline as trichloroethyl carbamates by electron-capture GC (133) 367

Nortriptyline

Assay of tricyclic structured drugs and their metabolites in urine by HPLC (134) 182

Nortriptyline

Rapid, sensitive GLC method for determination of amitriptyline and nortriptyline in plasma using a nitrogen-sensitive detector (138) 437

Nucleic acid constituents

Chromatographic behaviour of nucleic acid constituents and of phenols on chitosan thin layers (139) 337

Nucleic acids

LC of nucleic acid components and their analogues on hydroxyethyl methacrylate gels (133) 127

Nucleic acids

Two-dimensional TLC-autoradiography of intracellular purine interconversion products (135) 485

Nucleic acids

Single-step separation of major and rare ribonucleosides and deoxyribonucleosides by cation-exchange HPLC for the determination of the purity of nucleic acid preparation (140) 251

Nucleosides

Detection reagent for adenine, guanine, uracil, cytosine and their alkylated bases, nucleotides and nucleosides on thin-layer plates (132) 121

Nucleosides

Separation of nucleic acid bases and nucleosides by high-performance affinity chromatography (134) 204

Nucleosides

Two-dimensional TLC-autoradiography of intracellular purine interconversion products (135) 485

Nucleosides

Influence of modified nucleosides in *E. coli* transfer RNA on chromatographic mobilities of transfer RNA (137) 93

Nucleosides

Simultaneous analysis of bases, nucleosides and nucleoside mono- and polyphosphates by HPLC (138) 203

Nucleosides

Chromatographic behaviour of nucleic acid constituents and of phenols on chitosan thin layers (139) 337

Nucleosides

HPLC of adenine and hypoxanthine arabinosides (139) 370

Nucleosides

Separation of naturally occurring adenine nucleosides and nucleotides by anion-exchange chromatography (140) 118

Nucleosides

Single-step separation of major and rare ribonucleosides and deoxyribonucleosides by cation-exchange HPLC for the determination of the purity of nucleic acid preparation (140) 251

Nucleotides

Sequence analysis of synthetic oligonucleotides by anion-exchange HPLC (131) 169

Nucleotides

Detection reagent for adenine, guanine, uracil, cytosine and their alkylated bases, nucleotides and nucleosides on thin-layer plates (132) 121

Nucleotides

Analysis by HPLC of 9- β -D-arabinofuranosyladenine 5'-triphosphate levels in murine leukemia cells (133) 335

Nucleotides

Purification of oligodeoxynucleotides on Sephadex G-10 columns (135) 189

Nucleotides

Two-dimensional TLC-autoradiography of intracellular purine interconversion products (135) 485

Nucleotides

Use of an amino-silica column for the HPLC analysis of synthetic oligodeoxynucleotides (137) 351

Nucleotides

Simultaneous analysis of bases, nucleosides and nucleoside mono- and polyphosphates by HPLC (138) 203

Nucleotides

Chromatographic behaviour of nucleic acid constituents and of phenols on chitosan thin layers (139) 337

Nucleotides

Separation of naturally occurring adenine nucleosides and nucleotides by anion-exchange chromatography (140) 118

Nylon-6 fibre

Pyrolysis GC of capron (nylon-6) fibre stabilized with ethers of 4-oxydiphenylamine (135) 212

O**Obstruction factors**

Obstruction factors are not always flow dependent (134) 166

Oil fractions

GC separation and identification of bicyclic aromatic hydrocarbons in kerosene (b.p. 200-280°) (137) 198

Oils

Computer processing of fatty acid analysis data (131) 121

Oligodeoxynucleotides

Purification of oligodeoxynucleotides on Sephadex G-10 columns (135) 189

Oligodeoxynucleotides, synthetic

Use of an amino-silica column for the HPLC analysis of synthetic oligodeoxynucleotides (137) 351

Oligomers

Simultaneous separation of oligomeric sugars and oligomers with a terminal aldonic acid group on anion-exchange resins (134) 195

Oligonucleotides

Sequence analysis of synthetic oligonucleotides by anion-exchange HPLC (131) 169

Oligosaccharides

Simple TLC technique for the separation of mono- and oligosaccharides (132) 172

Oligosaccharides

In situ reactions on silica gel thin layers in studies on plant oligosaccharides (134) 242

Oligosaccharides

Simple procedure for combined GC analysis of neutral sugars, hexosamines and alditols. Determination of degree of polymerization of oligo- and polysaccharides and chain weights of glycosaminoglycans (139) 303

Ommochromes

Simultaneous separation of pteridines and ommochrome precursors by PC (133) 423

Open-tubular glass columns, whisker-walled

Whisker-walled open-tubular glass columns in GC. I. Deactivation (132) 217

Open-tubular glass columns, whisker-walled

Whisker-walled open-tubular glass columns in GC. II. Chromatographic performance (132) 223

Open-tubular glass columns, whisker-walled

Whisker-walled open-tubular glass columns in GC. III. Applications (132) 231

Operating parameters in gas chromatography

Optimization of operating parameters for glass capillary column GC (140) 197

Opium alkaloids

Chemistry of opium alkaloids. VIII. Separation of opium alkaloids and related compounds by ion-pair HPLC (133) 382

Optical brighteners

Separation of optical brighteners by LSC. II (139) 168

Optimization of operating parameters

Optimization of operating parameters for glass capillary column GC (140) 197

Organic compounds

Determination of organic compounds in the hydrogen used for cooling large electricity generators (137) 315

Organic compounds

Gram-scale preparative separation of *exo*- and *endo*-isomers by HPLC using a partial recycle technique (137) 461

Organic contaminants in water

Removal of gas chromatographable organic compounds from water by a spray vaporization technique (132) 537

Organochlorine compounds

GC identification of some chlorinated aromatic acids, chlorophenols, and their aromatic acid precursors (139) 186

Organochlorine residues

Method for the separation of organochlorine residues before GLC analysis (140) 17

Organohalides

Direct aqueous injection GC-MS for analysis of organohalides in water at concentrations below the parts per billion level (139) 297

Organophosphorus esters

Preparative purification of alkyl methylphosphonic acid *p*-nitrophenyl esters on Sephadex LH-20 (135) 196

Organophosphorus pesticides

Comparison of drosophila, rat-liver and bee-head esterases in detecting residues of organophosphorus and carbamate pesticides in vegetables and fruits (133) 245

Organotin stabilizers

Contribution to the GC analysis of organotin stabilizers for polyvinyl chloride (in German) (131) 317

Ornipressin

Separation of nonapeptides by reversed-phase HPLC (132) 27

Ornipressin

Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429

Oxazepam

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Oxo acids of phosphorus

Gel and ion-exchange chromatographic purification of the reaction products between diphosphate and diphosphonate (134) 497

Oxo compounds

TLC analysis of oxo and thio compounds (140) 109

Oxolinic acid

Analysis of urinary tract antibacterial agents in pharmaceutical dosage form by HPLC (132) 352

Oxytocin

Separation of nonapeptides by reversed-phase HPLC (132) 27

Oxytocin

Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429

P

Packed columns

Contributions to the theory of chromatography (135) 1

Packings

Studies of chromatographic packings comprising chemically bonded phases obtained from porous glass beads. I. Sorption properties and surface heterogeneity (131) 7

Packings

Upward slurry packing of LC columns (131) 57

Packings

Development of a bonded weak anion-exchange packing suitable for the HPLC of hop resins (133) 97

Packings

Retention behaviour of a porous styrene-divinylbenzene copolymer in the separation of fatty acids and related compounds (138) 17

Palladium

GPC of transition metal ions using Bio-Gels (135) 173

Palustric acid

GLC of resin acid esters (136) 245

Papaverine

Determination of papaverine in blood samples by GLC and mass fragmentography (133) 153

Paper chromatography

Contribution to the standardization of results in PC and TLC (in German) (139) 85

Paradols

Pungent compounds. II. Detection and identification of paradols (alkyl 4-hydroxy-3-

methoxyphenethyl ketones) by combined GC-MS (134) 315

Paraoxon

Determination of paraoxon by combined bovine liver esterase inhibition and GLC (138) 423

Paraquat

Quantitative determination of the herbicide paraquat in human plasma by GC and MS methods (139) 311

Parathion

An *in situ* fluorimetric method for the detection and quantitative analysis of fenitrothion, its breakdown products and other amine-generating compounds (132) 315

Parathion-methyl

An *in situ* fluorimetric method for the detection and quantitative analysis of fenitrothion, its breakdown products and other amine-generating compounds (132) 315

Patulin pathway metabolites

Quantitation of patulin pathway metabolites using GLC (132) 17

PCBs

Identification of the individual polychlorinated biphenyls in a mixture by GLC (136) 147

PCBs

Use of ethyl ethers, deuteriomethyl ethers and cyclic *n*-butylboronates of hydroxychlorobiphenyls in identification of metabolites of polychlorinated biphenyls (139) 51

Peak identification

Positive peak identification in LC using absorbance ratioing with a variable-wavelength spectrophotometric detector (134) 73

Pemoline

Combined GLC-MS analysis of pemoline in biological samples (134) 415

Pemoline

GC determination of pemoline as 5-phenyl-2,4-oxazolidinone in human urine (137) 333

Pemoline

GC determination of pemoline in biological fluids using electron capture detection (137) 343

Pemoline

TLC determination of pemoline in urine after ingestion of therapeutic doses (in German) (140) 134

Penicillins

Polymerization of penicillins. IV. Separation, isolation and characterization of ampicillin polymers formed in aqueous solution (132) 51

Penicillins

Salt effects in reversed-phase TLC on silica gels (133) 355

Penicillins

GLC of methyl esters of natural penicillins (136) 162

Peptides

Separation of nonapeptides by reversed-phase HPLC (132) 27

Peptides

Improved chromatographic identification of coloured amino acid thiohydantoins (132) 303

Peptides

Two-dimensional micro-separation technique for proteins and peptides, combining isoelectric focusing and gel gradient electrophoresis (132) 451

Peptides

HPLC of peptides (135) 155

Peptides

Bonded peptide stationary phases for the separation of amino acids and peptides using LC (135) 367

Peptides

Preparative countercurrent chromatography with a slowly rotating helical tube (136) 189

Peptides

Improved procedure for peptide characterization using TLC and a fluorescamine indicator (140) 129

Peptides

HPLC of peptides (140) 260

Permittivity detector, thermostatted

Construction and evaluation of a thermostatted permittivity detector for column HPLC (132) 369

Pesticides

Isolation and determination of chlorinated organic pesticides by TLC and the application to toxicological analysis (131) 275

Pesticides

Whisker-walled open-tubular glass columns in GC. III. Applications (132) 231

Pesticides

An *in situ* fluorimetric method for the detection and quantitative analysis of fenitrothion, its breakdown products and other amine-generating compounds (132) 315

Pesticides

Comparison of drosophila, rat-liver and bee-head esterases in detecting residues of organophosphorus and carbamate pesticides in vegetables and fruits (133) 245

Pesticides

Detection of triazine herbicides in soil by a

Hill-reaction inhibition technique after TLC (133) 420

Pesticides

Separation of rotenoids by HPLC (134) 207

Pesticides

Determination of rotenone in pesticide formulations and the separation of six rotenoids by reversed-phase HPLC (134) 210

Pesticides

Reversed-phase HPLC of some common herbicides (134) 216

Pesticides

TLC separation of several chloro- and methyl-substituted 2-aminopyridines (134) 238

Pesticides

Identification of eleven urea herbicides by TLC and GLC. I. Application to natural waters (in French) (134) 483

Pesticides

Separation, detection and densitometric determination of chlorinated insecticides on silica gel and aluminum hydroxide papers (135) 235

Pesticides

TLC of chlorinated catechols (135) 395

Pesticides

GLC method with electron-capture detection for the determination of residues of some phenoxyacetic acid herbicides in water as their 2,2,2-trichloroethyl esters (136) 105

Pesticides

TLC of chlorinated cresols (136) 379

Pesticides

Phenones: A family of compounds broadly applicable to use as internal standards in HPLC. Application to the analysis of carbofuran (138) 41

Pesticides

Detection of carbofuran and metabolites directly or as their heptafluorobutyryl derivatives using GLC or HPLC with different detectors (138) 143

Pesticides

Determination of hydrazine metabolites of isoniazid in human urine by GC (138) 165

Pesticides

Determination of paraoxon by combined bovine liver esterase inhibition and GLC (138) 423

Pesticides

Use of the sorbent Spheron SE in the analysis of trace amounts of impurities in water (139) 15

Pesticides

Quantitative determination of the herbicide

paraquat in human plasma by GC and MS methods (139) 311

Pesticides

Use of Amberlite XAD-2 resin for the quantitative recovery of fenitrothion from water: A preservation technique (139) 386

Pesticides

Simplified method for the determination of residues of carbofuran and its metabolites in crops using GLC-mass fragmentography (140) 209

Pesticides, chlorinated

Determination of chlorinated pesticides in potable water (132) 277

Pesticides, organochlorine

Determination of organochlorine insecticide residues in fatty foodstuffs using a clean-up technique based on a single column of activated alumina (137) 405

Petroleum distillates

Surface-layer sorbents for group analysis of aromatic hydrocarbons in petroleum distillates (140) 319

Petroleum fractions, heavy

Rapid method for characterization of heavy petroleum fractions (135) 514

pH effects

Effect of pH on polyelectrolytes in adsorption chromatography (138) 267

Pharmaceutical compounds

HPLC separation of pharmaceutical compounds using a mobile phase containing silver nitrate (136) 337

Pharmaceuticals

Quantitative analysis of nonapeptides in pharmaceutical dosage forms by HPLC (132) 429

Pharmaceuticals

HPLC of iridoid and secoiridoid glucosides (138) 453

Phencyclidine

Separation and detection of phencyclidine in urine by GC (137) 135

Phenobarbital

Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332

Phenobarbital

Solvent suppression of the decomposition of phenobarbital during on-column methylation with trimethylanilinium hydroxide (138) 413

Phenobarbitone

Simultaneous determination of anticonvulsant drugs by GLC (131) 341

Phenolic acids

Selective liquid-liquid partition systems for

the chromatographic analysis of some coumarins and phenolic acids (derivatives of cinnamic acid) (137) 182

Phenolic cinnamate derivatives

Chromatography of natural phenolic cinnamate derivatives on Sephadex LH-20 and G-25 (140) 120

Phenolic lipids

Long-chain phenols. VIII. Quantitative analysis of the unsaturated constituents of phenolic lipids by TLC-MS (136) 289

Phenols

Use of a modified Tenax GC column packing for the direct GC analysis of phenols in water at the ppm level (135) 351

Phenols

Modified TLC method for the detection of phenols (135) 521

Phenols

Analysis of low-boiling isomers of phenols by GC (136) 328

Phenols

Ion-pair phase systems for the separation of carboxylic acids, sulphonic acids and phenols by HPLC (138) 245

Phenols

GC separation of phenols on a polyphenyl ether with six rings. I (139) 69

Phenols

Chromatographic behaviour of nucleic acid constituents and of phenols on chitosan thin layers (139) 337

Phenols, alkyl-substituted

Study of retention behaviour of alkylphenols in straight- and reversed-phase LC and application to the analysis of complex phenolic mixtures in conjunction with GC (136) 45

Phenols, long-chain

Long-chain phenols. VIII. Quantitative analysis of the unsaturated constituents of phenolic lipids by TLC-MS (136) 289

Phenols, long-chain, unsaturated

Long-chain phenols. IX. Compositional studies on the unsaturated phenols of *Anacardium occidentale* (cashew nut-shell liquid) (138) 97

Phenones

Phenones: A family of compounds broadly applicable to use as internal standards in HPLC. Application to the analysis of carbofuran (138) 41

Phenothiazines

Nickel GC columns: An alternative to glass for biological samples (140) 9

Phenoxyacetic acid herbicides

GLC method with electron-capture detection for the determination of residues of some

phenoxyacetic acid herbicides in water as their 2,2,2-trichloroethyl esters (136) 105

Phensuccinimide

Simultaneous GC analysis for the seven commonly used antiepileptic drugs in serum (136) 332

Phenylbutazone

TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489

Phenylcyclohexylpiperidine

Separation and detection of phencyclidine in urine by GC (137) 135

Phenylglyoxylic acid

Isotachophoretic analysis of mandelic acid, phenylglyoxylic acid, hippuric acid and methylhippuric acid in urine after occupational exposure to styrene, toluene and/or xylene (132) 469

Phenylmercuric compounds

Mechanism of the reaction GC of phenylmercury(II) compounds (138) 381

Phenytoin

TLC analysis of phenytoin and its hydroxy metabolites (137) 231

Pheromones

Microchemical methods for the identification of volatile pheromones (134) 174

Phosphatidic acid

Simple preparative and analytical TLC method for the rapid isolation of phosphatidic acid from tissue lipid extracts (137) 194

Phosphatidyl glycerol

Improved TLC method for the separation of major phospholipids and glycolipids from plant lipid extracts and phosphatidyl glycerol and bis(monoacylglyceryl) phosphate from animal lipid extracts (140) 179

Phosphoantimonic acid

Synthetic inorganic ion-exchange materials. XV. Chromatographic separation of alkali metal ions using phosphoantimonic(V) acid as a cation exchanger (134) 507

Phospholipids

Dry CC of phospholipids (131) 157

Phospholipids

HPLC separation and quantitative analysis of synthetic phospholipids (133) 226

Phospholipids

Sensitive fluorogenic visualization reagent for the detection of lipids on thin-layer chromatograms (135) 226

Phospholipids

Improved TLC method for the separation of major phospholipids and glycolipids from plant lipid extracts and phosphatidyl glycerol

and bis(monoacylglyceryl) phosphate from animal lipid extracts (140) 179

Phosphonic acid derivatives

TLC separation of phosphonic acid derivatives (132) 366

Phosphorus

Ionization detector for GC with switchable selectivity for carbon, nitrogen and phosphorus (134) 65

Phosphorus compounds

Optimisation of the performance of a three-electrode thermionic detector for the detection of phosphorus, sulphur and nitrogen compounds by GC (136) 199

Phosphorus detector

Nitrogen-phosphorus detector and its applications in GC (134) 57

Phosphoserine

Complete analysis of protein hydrolysates containing phosphoserine and phosphothreonine using the amino acid analyzer (135) 508

Phosphothreonine

Complete analysis of protein hydrolysates containing phosphoserine and phosphothreonine using the amino acid analyzer (135) 508

Photoionization detector

Evaluation of a new photoionization detector for organic compounds (134) 49

Photometry

Fluorescence photometry of thin-layer chromatograms and electropherograms (133) 49

Phthalate esters

Polarity of phthalate esters in GC (131) 31

Phthalate esters

Micro-determination of total phthalate esters in biological samples by GLC (133) 303

Phthalate esters

Reversed-phase adsorption of phthalate esters from aqueous solutions and their gradient elution using a high-performance liquid chromatograph (133) 402

Phthalimides

GC determination of some chloroethyl phthalimide compounds (134) 397

Phytoecdysones

Quantitative determination of phytoecdysones as illustrated by application to species of *Helleborus* (131) 468

Pigments

HPLC of plant pigments (135) 217

Pigments

New thin-layer system for the identification of

moderately polar to lipophilic boletus pigments (in German) (138) 232

Pigments

TLC measurement of low activities of tritiated substances mixed with non-radioactive quenching plant pigments (139) 376

Pinazepam

Rapid and sensitive electron-capture GC method for the determination of pinazepam and its metabolites in human plasma, urine and milk (135) 133

Plant pigments

HPLC of plant pigments (135) 217

Plant pigments

TLC measurement of low activities of tritiated substances mixed with non-radioactive quenching plant pigments (139) 376

Plasma chromatograph

GC detection modes for the plasma chromatograph (135) 329

Plasticisers

Identification and determination of 1,3-diisobutyrate-2,2,4-trimethylpentane (Texanol isobutyrate) in polyvinyl chloride plastisol coating formulations (139) 395

Plasticizers

Reversed-phase adsorption of phthalate esters from aqueous solutions and their gradient elution using a high-performance liquid chromatograph (133) 402

Platinum

GPC of transition metal ions using Bio-Gels (135) 173

Pluronic

Pluronic as liquid phases for capillary GLC (140) 257

Polar effect constants

Behaviour of ethers. VII. Principle of determination of the polar effect constants (in French) (133) 7

Polar effect constants

New σ_c^* polar effect constants scale adapted to chromatography (in French) (136) 5

Polar effect constants

Incrementation of polar effect constants in GLC (140) 137

Polarity

Polarity of phthalate esters in GC (131) 31

Polarity of solids

Estimation of polarity of solids by GC (138) 33

Pollutants

Extraction of organic compounds from airborne particulate matter for GC analysis (131) 245

Pollutants

Fast quantitative analysis of organic

compounds in airborne particulate matter by GC with selective MS detection (131) 253

Pollutants

Stability of benzo(a)pyrene on silica gel plates for HPTLC (131) 417

Pollutants

GLC analysis of benzo(a)pyrene in cigarette smoke on a nematic liquid crystal (132) 136

Pollutants

Removal of gas chromatographable organic compounds from water by a spray vaporization technique (132) 537

Pollutants

Sampling and determination of halocarbons in ambient air using concentration on porous polymer (134) 375

Pollutants

Reversed two-dimensional technique for multiple separations of benzo(a)pyrene from atmospheric aerosol samples (135) 241

Pollutants

Use of a modified Tenax GC column packing for the direct GC analysis of phenols in water at the ppm level (135) 351

Pollutants

Separation of isomeric alkylphenols by HPLC and GLC techniques (137) 53

Pollutants

Method for the determination of polycyclic aromatic hydrocarbons in maize by capillary-column GLC (in German) (138) 151

Pollutants

GC method for the analysis of major polynuclear aromatics in particulate matter (138) 399

Pollutants

Method for the separation of organochlorine residues before GLC analysis (140) 17

Pollutants, atmospheric

Air sampling methods for *s*-tetrachloroethane and other related chlorinated hydrocarbons (137) 283

Pollutants, atmospheric

Simple and rapid GLSC analysis of trace concentrations of acetaldehyde in urban air (137) 455

Pollutants, chemical

Identification of the individual polychlorinated biphenyls in a mixture by GLC (136) 147

Pollutants, chemical

Use of ethyl ethers, deuteriomethyl ethers and cyclic *n*-butylboronates of hydroxychlorobiphenyls in identification of metabolites of polychlorinated biphenyls (139) 51

Polyacrylic fibres

Pyrolysis GC analysis of some toxic compounds from nitrogen-containing fibres (137) 210

Polyamide fibres

Pyrolysis GC analysis of some toxic compounds from nitrogen-containing fibres (137) 210

Polyamines

High-efficiency cation-exchange chromatography of polypeptides and polyamines in the nanomole range (132) 552

Polyamines

Rapid determination of polyamines and some mono- and diamines in vegetable extracts (in French) (139) 381

Polyaromatic hydrocarbons

Fast quantitative analysis of organic compounds in airborne particulate matter by GC with selective MS detection (131) 253

Polychlorinated biphenyls, see PCBs

Poly(chromium diphenylphosphinate)

Coordination polymers as adsorbents and stationary phases in GC. I. Poly(chromium(III) diphenylphosphinate) (138) 337

Polycyclic aromatic compounds

Extraction of organic compounds from airborne particulate matter for GC analysis (131) 245

Polycyclic aromatic compounds

Identification of the individual polychlorinated biphenyls in a mixture by GLC (136) 147

Polycyclic aromatic hydrocarbons

Stability of benzo(a)pyrene on silica gel plates for HPTLC (131) 417

Polycyclic aromatic hydrocarbons

GLC analysis of benzo(a)pyrene in cigarette smoke on a nematic liquid crystal (132) 136

Polycyclic aromatic hydrocarbons

GC and mass fragmentographic assays of carcinogenic polycyclic hydrocarbon epoxide hydratase activity (134) 323

Polycyclic aromatic hydrocarbons

Reversed two-dimensional technique for multiple separations of benzo(a)pyrene from atmospheric aerosol samples (135) 241

Polycyclic aromatic hydrocarbons

Method for the determination of polycyclic aromatic hydrocarbons in maize by capillary-column GLC (in German) (138) 151

Polycyclic aromatic hydrocarbons

GC method for the analysis of major polynuclear aromatics in particulate matter (138) 399

Polycyclic hydrocarbon epoxides

GC and mass fragmentographic assays of

carcinogenic polycyclic hydrocarbon epoxide hydratase activity (134) 323

Poly(dimethylsiloxane)

Preferential solvation of poly(dimethylsiloxane) and poly(methyl methacrylate) in benzene-methanol mixtures by GPC (140) 219

Polyelectrolytes

Effect of pH on polyelectrolytes in adsorption chromatography (138) 267

Polyethylene glycol

Comparison of chemically bonded and physically coated polyethylene glycol stationary phases in GC (135) 261

Polyglucosides

Recycle GPC separation of some acetal alcohol diastereoisomers representing partial polyglucosidic sequences (138) 89

Polyhydroxysteroids

Application of an ion-cluster technique to the analysis of endogenous hydroxylated compounds. I. Preparation of a doublet by use of a mixture of trimethylsilylimidazole (TSIM) and TSIM-d₃ (135) 109

Polymers

Concentration effects in GPC. I. Polymer solution properties (134) 263

Polymers

Coordination polymers as adsorbents and stationary phases in GC. I. Poly(chromium(III) diphenylphosphinate) (138) 337

Poly(methyl methacrylate)

Preferential solvation of poly(dimethylsiloxane) and poly(methyl methacrylate) in benzene-methanol mixtures by GPC (140) 219

Polynuclear aromatics

GC method for the analysis of major polynuclear aromatics in particulate matter (138) 399

Polynuclear hydrocarbons

GC behaviour of some polynuclear hydrocarbons on cadmium chloride columns modified with Carbowaxes (135) 359

Polyoxyethylene non-ionic surfactants

Chromatographic studies on the extraction of polyoxyethylene alkylphenyl ether non-ionic surfactants from water at trace levels (131) 309

Polypeptide antigen

Comparison of non-biospecific effects in immunoaffinity chromatography using cyanogen bromide and bifunctional oxirane as immobilising agents (135) 427

Polypeptides

High-efficiency cation-exchange chromatography of polypeptides and polyamines in the nanomole range (132) 552

Polypeptides

HPLC analysis of gramicidin, a polypeptide antibiotic (140) 174

Polyphenyl ether

GC separation of phenols on a polyphenyl ether with six rings. I (139) 69

Polysaccharides

Simple procedure for combined GC analysis of neutral sugars, hexosamines and alditols. Determination of degree of polymerization of oligo- and polysaccharides and chain weights of glycosaminoglycans (139) 303

Polyurethane

Improvements in GC columns formed by *in situ* polymerization (134) 170

Porphyrins

Benzidine substitute visualizing agents for iron porphyrins (138) 220

Preferential solvation

Preferential solvation of poly(dimethylsiloxane) and poly(methyl methacrylate) in benzene-methanol mixtures by GPC (140) 219

Pregnane

Improved separation of some isomers and epimers of the pregnane series by TLC with repeated development (135) 481

Prenylquinones

HPLC of natural prenylquinones (135) 493

Preparative countercurrent chromatography

Preparative countercurrent chromatography with a slowly rotating helical tube (136) 189

Preparative high-performance liquid chromatography

Gram-scale preparative separation of *exo*- and *endo*-isomers by HPLC using a partial recycle technique (137) 461

Preparative isotachopheresis

Preparative plasma protein fractionation by isotachopheresis in Sephadex columns (132) 437

Preparative liquid chromatography

Preparative HPLC separation of high-molecular-weight isomers (131) 185

Preparative-scale gas chromatography

Dynamical flow splitter for use in preparative-scale GC (in German) (139) 249

Primidone

Simultaneous determination of anticonvulsant drugs by GLC (131) 341

Primidone

GLC determination of primidone in plasma (132) 140

Primidone

Simultaneous GC analysis for the seven

commonly used antiepileptic drugs in serum (136) 332

Primidone

Solvent suppression of the decomposition of phenobarbital during on-column methylation with trimethylanilinium hydroxide (138) 413

Process control

High-speed GC analysis in process control (139) 259

Progestogens

Chromatographic separation of androgens, estrogens and progestogens on hydroxyalkoxypropyl-Sephadex (Lipidex) (133) 412

Propoxyphene

GC determination of propoxyphene and norpropoxyphene in plasma (132) 287

Propoxyphene carbinol diastereomers

HPLC resolution of propoxyphene carbinol diastereomers (134) 187

Prostaglandins

System for the identification of novel prostaglandins (138) 355

Protein amino acids

Quantitative analysis of protein and non-protein amino acids by GLC (131) 233

Protein amino acids

GC-MS of the N(O)-heptafluorobutryl isobutyl esters of the protein amino acids using electron impact ionisation (132) 485

Protein amino acids

GC separation of diastereoisomeric amino acid derivatives on glass capillaries. The use of pentafluoropropionyl-amino acid (+)-3-methyl-2-butyl esters (133) 141

Proteins

Hydrophobic interaction chromatography on uncharged Sepharose derivatives. Effects of neutral salts on the adsorption of proteins (131) 99

Proteins

Rapid purification of an RNA tumor virus and proteins by high-performance steric exclusion chromatography on porous glass bead columns (131) 383

Proteins

Analysis of the proteins in sweat and urine by agarose-gel isotachopheresis (132) 261

Proteins

Improved chromatographic identification of coloured amino acid thiohydantoin (132) 303

Proteins

Determination of protein molecular weights in denaturing solvents using glyceryl-CPG (132) 399

Proteins

Preparative plasma protein fractionation by isotachopheresis in Sephadex columns (132) 437

Proteins

Two-dimensional micro-separation technique for proteins and peptides, combining isoelectric focusing and gel gradient electrophoresis (132) 451

Proteins

Difference between free and ligand-bound folate-binding protein in cow's milk concerning affinity for chromatographic gels (134) 517

Proteins

Protein binding of rifampicin to bovine serum albumin as measured by gel filtration (135) 25

Proteins

Protein binding of a series of rifamycins to bovine serum albumin as measured by the "two-phase partition" technique (135) 37

Proteins

Ion-exchange chromatographic study of amino acid degradation during hydrolysis of avian protein (135) 447

Proteins

Method for improved protein separation in human and animal sera (135) 463

Proteins

Complete analysis of protein hydrolysates containing phosphoserine and phosphothreonine using the amino acid analyzer (135) 508

Proteins

Isoelectric chromatography: a new approach in the use of ion exchangers for protein purification (135) 511

Proteins

Applications of GLC in protein chemistry. II. Determination of amide residues in nanomolar amounts of proteins (136) 361

Proteins

Polyacrylamide gradient electrophoresis for protein purification on the milligram scale (137) 69

Proteins

Isoelectric focusing in cylinders of granulated gel (138) 25

Proteins

Use of ω -aminohexyl-Sepharose in the fractionation of *Escherichia coli* B aminoacyl-tRNA synthetases (139) 331

Proteins

Molecular-weight estimation of proteins using Sepharose CL-6B in guanidine hydrochloride (140) 98

Prothionamide

Determination of prothionamide and its sulphoxide metabolite in physiological fluids by quantitative TLC (132) 562

Pseudoephedrine

GLC determination of pseudoephedrine and norpseudoephedrine in human plasma and urine (140) 275

Psoralens

Determination of 8-methoxypsoralen in plasma by electron capture GC (140) 157

Pteridines

Simultaneous separation of pteridines and ommochrome precursors by PC (133) 423

Pulse damper for liquid chromatography

Simple pulse damper for LC (132) 128

Purine

Two-dimensional TLC-autoradiography of intracellular purine interconversion products (135) 485

Purines

Separation of alkylated guanines, adenines, uracils and cytosines by TLC (131) 265

Purines

Separation of nucleic acid bases and nucleosides by high-performance affinity chromatography (134) 204

Purines

Simultaneous analysis of bases, nucleosides and nucleoside mono- and polyphosphates by HPLC (138) 203

Purines

Chromatographic behaviour of nucleic acid constituents and of phenols on chitosan thin layers (139) 337

Purines, methylated

Rapid, quantitative separation by HPLC of methylated bases in transfer RNA (133) 231

Pyrimidine derivatives

Separation of alkyl derivatives of uracil by solvophobic adsorption chromatography on Spheron (138) 47

Pyrimidines

Separation of alkylated guanines, adenines, uracils and cytosines by TLC (131) 265

Pyrimidines

Separation of nucleic acid bases and nucleosides by high-performance affinity chromatography (134) 204

Pyrimidines

Simultaneous analysis of bases, nucleosides and nucleoside mono- and polyphosphates by HPLC (138) 203

Pyrimidines

Chromatographic behaviour of nucleic acid

constituents and of phenols on chitosan thin layers (139) 337

Pyrimidines, methylated

Rapid, quantitative separation by HPLC of methylated bases in transfer RNA (133) 231

Pyrolysis gas chromatography

Short-time pyrolysis and spectroscopy of unstable compounds. V. Improvement in Curie-point pyrolysis GC (136) 420

Q**Quaternary ammonium compounds**

Simplified detection of quaternary ammonium compounds by GC (131) 297

Quaternary ammonium compounds

Influence of alkali metal salts on the migration of quaternary ammonium compounds on silica gel layers (137) 485

R**Racemates**

Ligand-exchange chromatography of racemates. IV. Influence of stationary-complex structure on the mechanism of ligand exchange (131) 65

Radioactivity monitor

Radioactivity monitor for HPLC (137) 271

Reaction chamber

Amino acid analysis: A novel reaction chamber (136) 417

Reagent, van Urk-Salkowski

The van Urk-Salkowski reagent: A sensitive and specific chromogenic reagent for silica gel TLC detection and identification of indole derivatives (132) 267

Regeneration

Device for regeneration of cation-exchange resins with hydrochloric acid (133) 237

Resin acid esters

GLC of resin acid esters (136) 245

Resins

Use of Amberlite XAD-2 resin for the quantitative recovery of fenitrothion from water: A preservation technique (139) 386

Resolution factor

Coupling of a gel permeation chromatograph and an automatic capillary viscometer. II. Method for the determination of the molecular weight distribution and of the resolution factor (134) 273

Retention coefficients, prediction

Attempt to use HPTLC data for prediction of HPLC retention coefficients (in French) (137) 35

Retention index

New σ_c^* polar effect constants scale adapted to chromatography (in French) (136) 5

Retention index

Influence of conformations and structures on retention values of cycloalkanes and cycloalkanones (in French) (138) 63

Retention index

Capillary GC of alkylbenzenes. III. Correlations between the temperature and pressure coefficients of the retention index and structure (138) 119

Retention index

Application of a Taft-type equation to retention data. Additivity of substituent effects (in French) (140) 143

Retention times

Accurate calculation of adjusted retention time. I (135) 183

Retention volume

Direct measurement of GC retention volume. III. Software (139) 156

Retention volume

Cluster expansion for retention volume in adsorption GC. Adsorption of hydrocarbons on graphite (139) 237

Retinal isomers

Simultaneous determination of *cis-trans* isomeric retinals by HPLC (134) 331

Ribonucleosides

Two-dimensional TLC-autoradiography of intracellular purine interconversion products (135) 485

Ribonucleosides

Single-step separation of major and rare ribonucleosides and deoxyribonucleosides by cation-exchange HPLC for the determination of the purity of nucleic acid preparation (140) 251

Ribonucleotides

Two-dimensional TLC-autoradiography of intracellular purine interconversion products (135) 485

Rifampicin

Protein binding of rifampicin to bovine serum albumin as measured by gel filtration (135) 25

Rifamycins

Protein binding of a series of rifamycins to bovine serum albumin as measured by the "two-phase partition" technique (135) 37

Rilsan

Pyrolysis GC analysis of some toxic compounds from nitrogen-containing fibres (137) 210

RNA, transfer

Rapid, quantitative separation by HPLC of methylated bases in transfer RNA (133) 231

RNA, transfer

Influence of modified nucleosides in *E. coli* transfer RNA on chromatographic mobilities of transfer RNA (137) 93

RNA tumor virus

Rapid purification of an RNA tumor virus and proteins by high-performance steric exclusion chromatography on porous glass bead columns (131) 383

Rodenticides

Biochemical applications of a quantitative HPLC assay of warfarin and its metabolites (131) 365

Rodenticides

Determination of the rodenticide difenacoum in biological materials by HPLC with confirmation of identity by MS (139) 321

Rotenoids

Separation of rotenoids by HPLC (134) 207

Rotenoids

Determination of rotenone in pesticide formulations and the separation of six rotenoids by reversed-phase HPLC (134) 210

Rotenone

Determination of rotenone in pesticide formulations and the separation of six rotenoids by reversed-phase HPLC (134) 210

Rubidium bromide thermionic detector

Significance of the rubidium bromide thermionic detector equipped with a gate electrode in the analysis of halogenated dithiocarbamate derivatives (140) 86

S

Saccharides

Simultaneous separation of oligomeric sugars and oligomers with a terminal aldonic acid group on anion-exchange resins (134) 195

Saccharides

Separation of hexosamines, hexosaminotols and hexosamine-containing di- and trisaccharides on an amino acid analyser (134) 199

Saccharides

In situ reactions on silica gel thin layers in studies on plant oligosaccharides (134) 242

Saccharides

GLC of trimethylsilylated disaccharide oximes (135) 411

Saccharides

Sensitive determination of derivatized carbohydrates by HPLC (136) 279

Salipran

Identification and quantitation of impurities from benorilate (Salipran) by HPLC (in French) (138) 193

Salt effects

Salt effects in reversed-phase TLC on silica gels (133) 355

Sample introduction system

Automatic sample introduction system for GLC analysis of amino acids (133) 203

Sampling device

Simple device for sampling from vacuum systems to gas chromatographs (136) 306

Sandwich complexes

Postulated tetraphenylporphyrin-zinc tetraphenylporphyrin sandwich complex (132) 131

Sanguinarine

Detection and quantitative analysis of sanguinarine in edible oils (132) 359

Sapogenins

Analysis of Fenugreek sapogenins by GLC (133) 222

Schiff bases, tetrudentate

Chromatographic separation of isomeric forms of a tetrudentate Schiff base derived from 1,1,1-trifluoro-5,5-dimethylhexane-2,4-dione and 1,2-diaminoethane (134) 477

SCOT columns

Quantitative GC analysis on support-coated open tubular capillary columns. I. Analysis of isomeric ethylphenols (140) 245

Secoiridoid glucosides

HPLC of iridoid and secoiridoid glucosides (138) 453

Selected ion monitoring

Mass spectrometer as a substance-selective detector in chromatography (134) 147

Selenium

Determination of selenium in biological samples by GLC with electron-capture detection (136) 73

Selenium

Some 1,2-diaminobenzene derivatives as reagents for GC determination of selenium with an electron-capture detector (136) 85

Selenocysteine

Usefulness of N-ethylmaleimide in the identification of ⁷⁵Se-labeled selenocysteine (139) 391

Selenoproteins

Usefulness of N-ethylmaleimide in the identification of ⁷⁵Se-labeled selenocysteine (139) 391

Sensitivity

Sensitivity and the dimensions of the separating medium in TLC (133) 199

Separation mechanisms in high-performance liquid chromatography

Mechanisms of separation using the ternary mixture dichloromethane-ethanol-water in HPLC (132) 421

Sepharose derivatives

Hydrophobic interaction chromatography on uncharged Sepharose derivatives. Effects of neutral salts on the adsorption of proteins (131) 99

Serine

Separation of ¹⁴C-labeled glycolate pathway metabolites from higher plant photosynthate (133) 396

Serum albumin

Protein binding of rifampicin to bovine serum albumin as measured by gel filtration (135) 25

Serum albumin

Protein binding of a series of rifamycins to bovine serum albumin as measured by the "two-phase partition" technique (135) 37

Serum albumin

Isolation of serum albumin and immunoglobulins by chromatography on Con-A Sepharose and Sephadex G-150 (135) 193

Servalyt carrier ampholyte systems

Comparison of the buffer capacities of Ampholine and Servalyt carrier ampholyte systems used in isoelectric focusing (135) 441

Silica

Comparison of HPLC and TLC data obtained with various types of silica (131) 408

Silica whiskers

Whisker-walled open-tubular glass columns in GC. I. Deactivation (132) 217

Silicon detector

Silicon detector for GC (140) 1

Silymarins

HPLC separation of silymarins and their determination in crude extracts of *Silybum Marianum Gaertn.* (135) 499

Slurry packing

Upward slurry packing of LC columns (131) 57

Small molecules

Solute-gel interactions in GPC of small molecules in organic media (135) 470

Small-scale thin-layer chromatography

Use of plastic foil in small-scale TLC (134) 235

Sodium Valproate

GC determination of valproic acid in human plasma (132) 145

Solanesol

GC method for the determination of free and total solanesol in tobacco (139) 269

Solids, polarity

Estimation of polarity of solids by GC (138) 33

Solute properties

Qualitative GC analysis and determination of solute properties. Study of the relationship between the molecular structure and GC retention of alkenes on squalane (137) 259

Solute properties

Qualitative GC analysis and determination of solute properties. Calculation of the retention indices of benzene homologues on squalane (137) 265

Solvation, preferential

Preferential solvation of poly(dimethylsiloxane) and poly(methyl methacrylate) in benzene-methanol mixtures by GPC (140) 219

Solvent properties

Evaluation of solvent properties. A comparison of esters of 2-ethylhexanol (133) 190

Solvophobic adsorption chromatography

Separation of alkyl derivatives of uracil by solvophobic adsorption chromatography on Spheron (138) 47

Sorbents

Properties and use of the sorbent Spheron SDA in GC (133) 91

Sorbents

LC of nucleic acid components and their analogues on hydroxyethyl methacrylate gels (133) 127

Sorbents

Use of the sorbent Spheron SE in the analysis

of trace amounts of impurities in water (139) 15

Spectinomycin

Chromatography of the reduction products of spectinomycin (136) 432

Spheron SDA

Properties and use of the sorbent Spheron SDA in GC (133) 91

Spheron sorbents

LC of nucleic acid components and their analogues on hydroxyethyl methacrylate gels (133) 127

Stabilizers

Contribution to the GC analysis of organotin stabilizers for polyvinyl chloride (in German) (131) 317

Standardization of results

Contribution to the standardization of results in PC and TLC (in German) (139) 85

Stationary phase film thickness

Measurement of the average thickness of the film of stationary phase in dynamically coated glass capillary columns for GC (138) 7

Stationary phases

Polarity of phthalate esters in GC (131) 31

Stationary phases

Hydrocarbon stationary phases for GLC (132) 181

Stationary phases

Silar 10 C, Silar 9 CP, SP 2340 and OV-275 in the GLC of fatty acid methyl esters on packed columns. Chromatographic characteristics and molecular structures (135) 93

Stationary phases

Comparison of chemically bonded and physically coated polyethylene glycol stationary phases in GC (135) 261

Stationary phases

SP 2340 in the glass capillary chromatography of fatty acid methyl esters (136) 311

Stationary phases

Coordination polymers as adsorbents and stationary phases in GC. I. Polychromium(III) diphenylphosphinatel (138) 337

Stationary phases

GC separation of phenols on a polyphenyl ether with six rings. I (139) 69

Sterigmatocystins

Investigation of the structure of mycotoxins and their quantitative analysis. IX. Sterigmatocystins (in German) (136) 182

Steroid drugs

TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489

Steroid lactones

HPLC of derivatives and microbial metabolites of withaferin-A (137) 465

Steroids

Quantitative determination of phytoecdysones as illustrated by application to species of *Helleborus* (131) 468

Steroids

Whisker-walled open-tubular glass columns in GC. III. Applications (132) 231

Steroids

GLC studies of reactions and structural relationships of steroids. V. Concurrent substitution in the pregnane side-chain and position 11 (133) 107

Steroids

Chromatographic separation of androgens, estrogens and progestogens on hydroxyalkoxypropyl-Sephadex (Lipidex) (133) 412

Steroids

Application of an ion-cluster technique to the analysis of endogenous hydroxylated compounds. I. Preparation of a doublet by use of a mixture of trimethylsilylimidazole (TSIM) and TSIM-d₃ (135) 109

Steroids

Separation of estrogen glucuronides, sulphates and phosphates on ion-exchange cellulose by HPLC (135) 305

Steroids

GLC of fecal neutral steroids (135) 341

Steroids

Improved separation of some isomers and epimers of the pregnane series by TLC with repeated development (135) 481

Steroids

TLC system for the semi-quantitative analysis of the ratio of α - and β -dihydroequilin in the diol fraction of equine estrogen conjugates (135) 523

Steroids

Styrylphenyl tetrazolium chloride as a location reagent for thiolsteroids on paper chromatograms (135) 527

Steroids

Simultaneous determination of Trenbolone acetate and ethynyl estradiol in food by combined TLC-GC (in French) (136) 165

Steroids

Detection of bile salts with Komarowsky's reagent and group specific dehydrogenases (136) 348

Steroids

Steroids and related studies. XL. TLC of some steroidal ketones, oximes and lactams (137) 202

Steroids

Nickel GC columns: An alternative to glass for biological samples (140) 9

Steroids

Analysis of C₁₉O₃ steroids by TLC and GLC and MS (140) 229

Steroids, hydroxylated

Use of silylating agents for the identification of hydroxylated steroids by GC and GC-MS. Discrimination between phenolic and alcoholic hydroxyl groups (133) 311

Sterols

Analysis of sponge sterols as the trimethylsilyl ethers and as the corresponding 5 α - and Δ^4 -3-ketosteroids using open-tubular GC-MS. Application of selective enzymic oxidation (133) 372

Sterols

Relationship between the structure of plant sterols and their retention behaviour in GC on several stationary phases (in German) (139) 77

Styrene

GC determination of styrene as its dibromide (136) 95

Styrylphenyl tetrazolium chloride

Styrylphenyl tetrazolium chloride as a location reagent for thiolsteroids on paper chromatograms (135) 527

Substituent effects

Application of a Taft-type equation to retention data. Additivity of substituent effects (in French) (140) 143

Sudan dyes

TLC of Sudan dyes (136) 353

Sugars

Direct spectrophotometric TLC for determining malondialdehyde and β -formyl pyruvate produced by the periodate oxidation of some deoxy sugars (131) 464

Sugars

TLC of the principal ketoses (in French) (132) 339

Sugars

Simultaneous separation of oligomeric sugars and oligomers with a terminal aldonic acid group on anion-exchange resins (134) 195

Sugars

Separation of hexosamines, hexosaminitols and hexosamine-containing di- and trisaccharides on an amino acid analyser (134) 199

Sugars

In situ reactions on silica gel thin layers in studies on plant oligosaccharides (134) 242

Sugars

GLC of trimethylsilylated disaccharide oximes (135) 411

Sugars

Sensitive determination of derivatized carbohydrates by HPLC (136) 279

Sugars

Simple procedure for combined GC analysis of neutral sugars, hexosamines and alditols. Determination of degree of polymerization of oligo- and polysaccharides and chain weights of glycosaminoglycans (139) 303

Sugars, reducing

Dansyl hydrazine as a fluorimetric reagent for TLC analysis for reducing sugars (139) 343

Sulindac

Determination of various drugs in rodent diet mixtures (131) 357

Sulphadiazine

GLC determination of sulphadiazine and its major metabolite in human plasma and urine (139) 181

Sulphamates

GC determination of cyclic amines, ketones and alcohols, possible metabolites of sweet sulphamates (136) 318

Sulphates

Use of complex formation equilibria in the analytical isotachopheresis of strong electrolyte ions. Separation of halides and sulphates (137) 83

Sulphinylamines

Separation of aromatic sulphinylamines by TLC. II (137) 228

Sulphinylamines

GC analysis of aromatic sulphinylamines. II (139) 177

Sulphinylamines, aromatic

Separation of aromatic sulphinylamines by TLC (132) 168

Sulphonamides

GLC determination of sulphadiazine and its major metabolite in human plasma and urine (139) 181

Sulphonamides

Pyrolysis GC-MS study of medicinal sulphonamides (139) 364

Sulphonic acids

Ion-pair phase systems for the separation of carboxylic acids, sulphonic acids and phenols by HPLC (138) 245

Sulphur compounds

GC determination of sulphur compounds in town gas (134) 423

Sulphur compounds

Optimisation of the performance of a three-electrode thermionic detector for the detection of phosphorus, sulphur and nitrogen compounds by GC (136) 199

Sulphur hexafluoride

Improvement in the determination of sulphur hexafluoride for use as a blood tracer (133) 428

Support-coated open tubular capillary columns

Quantitative GC analysis on support-coated open tubular capillary columns. I. Analysis of isomeric ethylphenols (140) 245

Support material, geometry

Influence of the geometry of support materials on the capacity of an extraction chromatographic system. III. Influence of the exchange kinetics and the flow inhomogeneities on the height equivalent to a theoretical plate (in German) (135) 273

Supports

Application of high-pressure GC with columns packed with small particles (132) 1

Supports

Improvements in GC columns formed by *in situ* polymerization (134) 170

Surface heterogeneity

Effects of surface heterogeneity in non-linear and non-equilibrium gas-adsorption chromatography (137) 1

Surfactants

Chromatographic studies on the extraction of polyoxyethylene alkylphenyl ether non-ionic surfactants from water at trace levels (131) 309

Surfactants

Preparation and TLC of sulfate conjugates of the component oligomers of Triton X-100 (137) 397

Surfactants

Isolation of natural surface-active materials of crude oils by adsorption chromatography (139) 135

Sympathomimetic central nervous stimulants

Detection of sympathomimetic central nervous stimulants with special reference to doping. I. Comparative study of a conventional extraction procedure and adsorption chromatography using XAD-2 resin (133) 214

Sympathomimetic central nervous stimulants

Detection of sympathomimetic central nervous stimulants with special reference to doping. II. Comparative study of two adsorption chromatography methods using different XAD resins (136) 385

Synthetases

Use of ω -aminohexyl-Sepharose in the fractionation of *Escherichia coli* B aminoacyl-tRNA synthetases (139) 331

Synthetic chemistry

Use of TLC systems in HPLC separations. Procedure for systematization and design of the separation process in synthetic chemistry (137) 41

T

Tannic acids

GC-MS analysis of tannin hydrolysates from the ink of ancient manuscripts (XIth to XVIth century) (134) 433

Temperature control system

Inexpensive temperature control system for HPLC. Application to carbofuran analysis and temperature programming for LC analysis (138) 321

Temperature gradients

Longitudinal temperature gradients in LC with a binary mobile phase (138) 329

Tetrachloroethane

Air sampling methods for *s*-tetrachloroethane and other related chlorinated hydrocarbons (137) 283

Tetracyclines

Simple method for the quantitative analysis of tetracyclines by direct fluorimetry after TLC on cellulose plates (132) 105

Tetracyclines

Gel chromatography of tetracycline antibiotics (134) 223

Tetracyclines

Reversed-phase HPLC determination of tetracyclines in urine and plasma (134) 441

Tetracyclines

Reversed-phase HPLC of doxycycline (140) 293

Tetraethylthiuram disulfide

Quantitative analysis of disulfiram and its metabolites in human blood by GLC (133) 167

Tetrahydroisoquinolines

Chromatographic behaviour of diastereomers. III. TLC behaviour of diastereomeric 4-substituted 6,7-dialkoxy-3-aryl-tetrahydroisoquinolines and -isochromans (132) 73

Tetraphenylporphyrin-zinc

tetraphenylporphyrin sandwich complex
Postulated tetraphenylporphyrin-zinc tetraphenylporphyrin sandwich complex (132) 131

Texanol isobutyrate

Identification and determination of 1,3-diisobutyrate-2,2,4-trimethylpentane (Texanol isobutyrate) in polyvinyl chloride plastisol coating formulations (139) 395

Thebaine

Quantitative determination of thebaine in *Papaver bracteatum* by HPLC (140) 65

Theophylline

Retention behaviour of a bonded reversed

phase in a HPLC assay of serum theophylline (135) 419

Thermal conductivity detector

Fast and sensitive thermal conductivity detector for use with capillary columns (in German) (137) 13

Thermionic detector

Optimisation of the performance of a three-electrode thermionic detector for the detection of phosphorus, sulphur and nitrogen compounds by GC (136) 199

Thermionic rubidium silicate detector

Study of the nitrogen response mode of the thermionic rubidium silicate detector (133) 37

Thiamine

Separation of thiamine and its derivatives on a Sephadex column (140) 316

Thiamphenicol

Preparation of trimethylsilyl derivatives of thiamphenicol (134) 365

Thin-layer chromatograms, evaluation

Fluorescence photometry of thin-layer chromatograms and electropherograms (133) 49

Thin-layer chromatograms, optical analysis

Effect of non-uniform concentration distribution with depth upon quantitative optical analysis of chromatograms (133) 195

Thin-layer chromatography

Location of TLC spots using UV light and tracing paper (132) 130

Thin-layer chromatography

Use of plastic foil in small-scale TLC (134) 235

Thin-layer chromatography

Contribution to the standardization of results in PC and TLC (in German) (139) 85

Thin-layer chromatography, continuous

Simple device for continuous TLC (138) 443

Thin-layer chromatography, quantitative

Modification of quantitative TLC by elution (140) 263

Thin-layer plates

Chromatography of Dns derivatives on pre-coated HPTLC plates (131) 109

Thin-layer plates

Preparation of plates with a permanent adsorbent layer and their application in the analytical TLC of lipids (132) 195

Thio compounds

TLC analysis of oxo and thio compounds (140) 109

Thiocyanate

Determination of thiocyanate in tissues and body fluids of animals by GC with electron-capture detection (138) 131

Thiolsteroids

Styrylphenyl tetrazolium chloride as a location reagent for thiolsteroids on paper chromatograms (135) 527

Thiopurines

Quantitative determination of metabolites of 6-mercaptopurine in biological materials. II. Advantages of a variable-wavelength HPLC spectrophotometric detector for the determination of 6-thiopurines (137) 61

Thyroid-inhibiting substances

GC determination of methylthiouracil residues in meat and organs of slaughtered animals (140) 266

TMB-4

Determination of *N,N*-trimethylene-bis(pyridinium-4-aldoxime) dibromide by ion-pair HPLC (138) 449

Tobacco alkaloids

Rapid determination of certain alkaloids, other than nicotine, in tobacco (133) 378

Tobacco mosaic virus

High-pressure chromatography of tobacco mosaic virus on Spheron gels (135) 435

Town gas

GC determination of sulphur compounds in town gas (134) 423

Trace enrichment techniques

Trace enrichment techniques in reversed-phase HPLC (136) 63

Transfer RNA

Rapid, quantitative separation by HPLC of methylated bases in transfer RNA (133) 231

Transfer RNA

Influence of modified nucleosides in *E. coli* transfer RNA on chromatographic mobilities of transfer RNA (137) 93

Transition metal ions

GPC of transition metal ions using Bio-Gels (135) 173

Tranxene

Determination of clorazepate and its major metabolites in blood and urine by electron capture GLC (135) 123

Trenbolone acetate

Simultaneous determination of Trenbolone acetate and ethynyl estradiol in food by combined TLC-GC (in French) (136) 165

Trialkylamines

Thermodynamics of molecular association. Tri-*n*-alkylamine-chloroalkane systems (139) 1

Triazine herbicides

Detection of triazine herbicides in soil by a Hill-reaction inhibition technique after TLC (133) 420

Tricobalt tetroxide-hydrogen system

GC investigations of the system tricobalt tetroxide-hydrogen (139) 349

Trifluoperazine

TLC screening procedure for some drugs used in treatment of arthritis: "arthritic cures" prescribed in Mexico (137) 489

Trinitrotoluene

Vapor pressure of 2,4,6-trinitrotoluene by a GC headspace technique (133) 83

Tritiated substances

TLC measurement of low activities of tritiated substances mixed with non-radioactive quenching plant pigments (139) 376

Triton X-100

Preparation and TLC of sulfate conjugates of the component oligomers of Triton X-100 (137) 397

U**Uracil**

Detection reagent for adenine, guanine, uracil, cytosine and their alkylated bases, nucleotides and nucleosides on thin-layer plates (132) 121

Uracil derivatives

Separation of alkyl derivatives of uracil by solvophobic adsorption chromatography on Spheron (138) 47

Uracils

Separation of alkylated guanines, adenines, uracils and cytosines by TLC (131) 265

Urea herbicides

Identification of eleven urea herbicides by TLC and GLC. I. Application to natural waters (in French) (134) 483

V**Valium**

Analysis of benzodiazepines and their hydrolysis products, benzophenones, by reversed-phase HPLC and its application to biological material (in German) (132) 83

Valproic acid

GC determination of valproic acid in human plasma (132) 145

Valproic acid

Sensitive GLC method for determination of valproic acid in biological fluids (137) 188

Vanadium pentoxide

Vanadium pentoxide in sulphuric acid, a general chromogenic spray reagent for carbohydrates (134) 467

Vinyl chloride monomer

Determination of vinyl chloride monomer by GC (132) 495

Visualizing agents

Benzidine substitute visualizing agents for iron porphyrins (138) 220

Vitamin A

Simultaneous determination of *cis-trans* isomeric retinals by HPLC (134) 331

Vitamin B₁

Separation of thiamine and its derivatives on a Sephadex column (140) 316

Vitamin B₆

New reagent for vitamin B₆ derivative formation in GC (135) 489

Vitamin K₃

GC determination of the purity of vitamin K₃ (menadione) (139) 195

Vitamins

Separation of naphthoquinones and lipophilic vitamins by gel chromatography and TLC (133) 345

Vitamins

HPLC separation of pharmaceutical compounds using a mobile phase containing silver nitrate (136) 337

Withaferin-A

HPLC of derivatives and microbial metabolites of withaferin-A (137) 465

Wool fibres

Pyrolysis GC analysis of some toxic compounds from nitrogen-containing fibres (137) 210

Z**Zinc chelates**

Chromatography of metal chelates. VII. HPLC of metal 1,2-diketobisthiobenzhydrazones, metal dialkyldithiocarbamates and metal 1,2-diketobisthiosemicarbazones (137) 153

Zinc chelates

Chromatography of metal chelates. VIII. HPLC of metal dithizonates (137) 165

Zinc-EDTA complexes

Electrophoretic investigations of the complexing of cadmium and zinc with EDTA (132) 323

Zirconium phosphate

Crystalline insoluble acid salts of tetravalent metals. XXVII. Ion exchange of trivalent cations on ionic forms of crystalline zirconium phosphate with large interlayer distances (132) 477

Zone spreading correction

Simple and efficient method of zone spreading correction in GPC (139) 225

W**Warfarin**

Biochemical applications of a quantitative HPLC assay of warfarin and its metabolites (131) 365

Warfarin

Analysis of warfarin in plasma by HPLC (135) 149

Water, trace impurities

Use of the sorbent Spheron SE ... the analysis of trace amounts of impurities in water (139) 15

Order your desk copy of:

Cumulative Author and Subject Indexes of the Journal of Chromatography

covering Volumes 1-50

1972 282 pages
Price: US \$23.75/Dfl. 58.00 Paperback

covering Volumes 51-100

1975 354 pages
Price: US \$36.75/Dfl. 90.00 Paperback

covering Volumes 101-110

1975 126 pages
Price: US \$14.50/Dfl. 35.00 Paperback

covering Volumes 111-120

1976 128 pages
Price: US \$15.50/Dfl. 38.00 Paperback

covering Volumes 121-130

1977 84 pages
Price: US \$14.50/Dfl. 35.00 Paperback

One copy of the Cumulative Author and Subject Index is supplied free of charge to subscribers of the Journal of Chromatography. Additional copies can be purchased.



ELSEVIER

P.O. Box 211, Amsterdam, The Netherlands

The Dutch guilder price is definitive. US \$ prices are subject to exchange rate fluctuations.

7051

Liquid Chromatography Detectors

by R. P. W. SCOTT, *Chemical Research Dept., Hoffmann-La Roche, Nutley, N.J.*

JOURNAL OF CHROMATOGRAPHY
LIBRARY - Volume 11

The rapid development of liquid chromatography over the past decade has been due to the introduction of highly sensitive linear liquid chromatography detectors. This book provides a comprehensive treatment of the function and optimal working conditions of liquid chromatography detectors. Divided into four parts, the book gives detailed descriptions of the general characteristics of liquid chromatography, bulk property, and solute property detectors, as well as their use in liquid chromatography. The necessary detector specifications are defined which will permit a rational comparison of the performance of one detector with that of another.

CONTENTS: Introduction. **Parts:** 1. **General Characteristics of Liquid Chromatography Detectors.** History, function and classification of detectors. Performance criteria of LC detectors. Detector characteristics that affect column performance. Summary of detector criteria. Ancillary equipment. 2. **Bulk Property Detectors.** General characteristics of bulk property detectors. The refractive index detector. The dielectric constant detector. The electrical conductivity detector. Additional bulk property detecting systems. 3. **Solute Property Detectors.** Principles of detection. The ultraviolet absorption detector. The fluorometric detector. The polarographic detector. The heat of adsorption detector. The spray impact detector. The radioactivity detector. The electron capture detector. Transport detectors. 4. **The Use of Detectors in Liquid Chromatography.** The selection of the appropriate detector. Quantitative and qualitative analysis. Practical hints on detector operation. Special detector techniques. Spectroscopic detectors. **Subject Index.**

1977 x + 248 pp. US \$34.50/Dfl. 84.00
ISBN 0-444-41580-7



ELSEVIER

P.O. Box 211, Amsterdam 52 Vanderbilt Ave
The Netherlands New York, N.Y. 10017

The Dutch guilder price is definitive. US \$ prices are subject to exchange rate fluctuations.

7056

GENERAL INFORMATION

(A leaflet *Instructions to Authors* can be obtained by application to the publisher.)

Types of Contributions. The following types of papers are published in the *Journal of Chromatography* and the section on *Biomedical Applications*: Regular research papers (full-length papers), short communications and notes. Short communications are preliminary announcements of important new developments and will, whenever possible, be published with maximum speed. Notes are usually descriptions of short investigations and reflect the same quality of research as full-length papers, but should preferably not exceed four printed pages. For reviews, see page 2 of cover under Submission of Papers.

Manuscripts. Manuscripts should be typed in double spacing on consecutively numbered pages of uniform size. The manuscript should be preceded by a sheet of manuscript paper carrying the title of the paper and the name and full postal address of the person to whom the proofs are to be sent. Authors of papers in French or German are requested to supply an English translation of the title of the paper. As a rule, papers should be divided into sections, headed by a caption (e.g., Summary, Introduction, Experimental, Results, Discussion, etc.). All illustrations, photographs, tables, etc. should be on separate sheets.

Title. The title of the paper should be concise and informative. Since titles are widely used in information retrieval systems, care should be taken to include the key words. The title should be followed by the authors' full names, academic or professional affiliations, and the address of the laboratory where the work was carried out. If the present address of an author is different from that mentioned, it should be given in a footnote. Acknowledgements of financial support are *not* to be made in a footnote to the title or name of the author, but should be included in the Acknowledgements at the end of the paper.

Summary. Full-length papers and review articles should have a summary of 50–100 words which clearly and briefly indicates what is new, different and significant. In the case of French or German articles an additional summary in English, headed by an English translation of the title, should also be provided. (Short communications and Notes are published without a summary.)

Illustrations. The figures should be submitted in a form suitable for reproduction, drawn in Indian ink on drawing or tracing paper. One original and two photocopies are required. Attention should be given to any lettering (which should be kept to a minimum) and to spacing on axes of graphs in order to ensure that numbers etc. remain legible after reduction. Axes of a graph should be clearly labelled. The figures should preferably be of such a size that the same degree of reduction can be applied to all of them. Photographs should have good contrast and intensity. Sharp, glossy photographs are required to obtain good halftones. References to the illustrations should be included in appropriate places in the text using arabic numerals. Each illustration should have a legend, all the legends being typed (with double spacing) together on a separate sheet. If structures are given in the text, the original drawings should be supplied. Coloured illustrations are reproduced at the authors' expense, the cost being determined by the number of pages and by the number of colours needed. The written permission of the author and publisher must be obtained for the use of any figure already published. Its source must be indicated in the legend.

References. References should be numbered in the order in which they are cited in the text, and listed in numerical sequence on a separate sheet at the end of the article. The numbers should appear in the text at the appropriate places in square brackets. In the reference list, periodicals [1], books [2], multi-author books [3] and proceedings [4] should be cited in accordance with the following examples:

- 1 A. T. James and A. J. P. Martin, *Biochem. J.*, 50 (1952) 679.
- 2 L. R. Snyder, *Principles of Adsorption Chromatography*, Marcel Dekker, New York, 1968, p. 201.
- 3 H. C. S. Wood and R. Wrigglesworth, in S. Coffey (Editor), *Rodd's Chemistry of Carbon Compounds*, Vol. IV, *Heterocyclic Compounds*, Part B, Elsevier, Amsterdam, Oxford, New York, 2nd ed., 1977, Ch. 11, p. 201.
- 4 E. C. Horning, J.-P. Thenot and M. G. Horning, in A. P. De Leenheer and R. R. Roncucci (Editors), *Proc. 1st Int. Symp. Quantitative Mass Spectrometry in Life Sciences*, Ghent, June 16–18, 1976, Elsevier, Amsterdam, Oxford, New York, 1977, p. 1.

Abbreviations for the titles of journals should follow the system used by *Chemical Abstracts*. Articles not yet published should be given as "in press", "submitted for publication", "in preparation" or "personal communication". The *Journal of Chromatography*; *Journal of Chromatography*, *Biomedical Applications* and *Chromatographic Reviews* should be cited as *J. Chromatogr.*

Proofs. One set of proofs will be sent to the author to be carefully checked for printer's errors. Corrections must be restricted to instances in which the proof is at variance with the manuscript. "Extra corrections" will be inserted at the author's expense.

Reprints. Fifty reprints of Full-length papers, Short communications and Notes will be supplied free of charge. Additional reprints can be ordered by the authors. An order form containing price quotations will be sent to the authors together with the proofs of their article.

News. News releases of new products and developments, and information leaflets of meetings should be addressed to: The Editor of the News Section, *Journal of Chromatography*/*Journal of Chromatography*, *Biomedical Applications*, Elsevier Scientific Publishing Company, P.O. Box 330, Amsterdam, The Netherlands.

Advertisements. Advertisement rates are available from the publisher on request. The Editors of the journal accept no responsibility for the contents of the advertisements.

BIBLIOGRAPHIES IN CHROMATOGRAPHY

BIBLIOGRAPHY OF LIQUID COLUMN CHROMATOGRAPHY 1971-1973

And Survey of Applications

edited by Z. DEYL, Physiological Institute, Czechoslovak Academy of Science 5, Prague and J. KOPECKÝ, Institute of Hygiene and Epidemiology, Prague.

Supplementary Volume No. 6,
1976

Published in conjunction with the
Journal of Chromatography

1976. xx + 1136 pages.

US \$ 103.70/Dfl. 259.00.

Paperback

Subscription Price:

US \$ 57.50/Dfl. 150.00.

ISBN 0-444-41469-x

This book provides ready access to information on papers dealing with all types of liquid column chromatography from 1971 to 1973. Together with the other Bibliography supplements in the series it completes the survey on chromatographic and electromigration separation procedures.

Individual items are classified according to the chemical nature of the compounds separated, as in the Journal of Chromatography, so both sources can be used side by side. Short notices attached to most of the entries refer to the sorbent or ion-exchange material used.

The Bibliography will serve workers in many different fields of

science and technology by enabling them to find, in the shortest possible time, full details on the applications of the LC technique to a particular compound or group of compounds. It also provides information about current instrumentation and sorbents used. The bibliography contains an author index and an extensive list of 20,000 compounds chromatographed.

BIBLIOGRAPHY OF PAPER AND THIN-LAYER CHROMATOGRAPHY 1970-1973

And Survey of Applications

edited by K. MACEK, et al.

Supplementary Volume No. 5,

1976. xviii + 744 pages.

US \$ 79.95/Dfl. 200.00.

Paperback

ISBN 0-444-41229-9

BIBLIOGRAPHY OF ELECTROPHORESIS 1968-1972

And Survey of Applications

edited by Z. DEYL, et al.

Supplementary Volume No. 4,

1975. xvi + 862 pages.

US \$ 79.95/Dfl. 200.00.

Paperback.

ISBN 0-444-41225-5

BIBLIOGRAPHY OF COLUMN CHROMATOGRAPHY 1967-1970

And Survey of Applications

edited by Z. DEYL, et al.

Supplementary Volume No. 3,

1973. xix + 1067 pages.

US \$ 71.95/Dfl. 180.00.

Paperback.

ISBN 0-444-41008-2

BIBLIOGRAPHY OF PAPER AND THIN-LAYER CHROMATOGRAPHY 1966-1969

And Survey of Applications

edited by K. MACEK, et al.

Supplementary Volume No. 2,

1972. xvi + 992 pages.

US \$ 79.95/Dfl. 200.00.

ISBN 0-444-40953-X

BIBLIOGRAPHY OF PAPER AND THIN-LAYER CHROMATOGRAPHY 1961-1965

And Survey of Applications

Supplementary Volume No. 1,

1968. only available in microfilm

US \$ 59.95/Dfl. 150.00.

ISBN 0-444-40676-x

ELSEVIER SCIENTIFIC PUBLISHING COMPANY

P.O. Box 211, Amsterdam, The Netherlands

Distributor in the U.S.A. and Canada:

ELSEVIER/NORTH-HOLLAND INC.,
52 Vanderbilt Avenue, New York, N.Y. 10017

The Dutch guildler price is definitive. US \$ prices are subject to exchange rate fluctuations

1925 Ea

