

Subject Index

- 3',5'-Adenosine monophosphate
PC combined with phosphodiesterase treatment in the determination of radioactively labelled cyclic — 139
- Adsorption phenomena
The contribution of solution and — in gas-liquid partition chromatography systems in which infinite dilution of solute may be assumed, 21
- Alcohol dehydrogenase isozymes
A method of high resolution immunoelectrophoresis for the —, 385
- Amines
Gel chromatographic separation of hydrocarbons, — and phenols on a polystyrene gel column. Preparative fractionation of cigarette smoke condensate for biological experiments, 299
- Amino acids
Identification of Dansyl — using a single solvent and a layer composed of three sorbents, 368
- Amino acids
An improved technique for the analysis of — and related compounds on thin layers of cellulose. VII. A simple technique for the estimation of blood urea and of its clearance from plasma, 325
- Amino acids
A new reagent for detecting tryptophan, indole, and indole-3-acetic acid in TLC, 371
- Amino acids
Separation of iodo — and iodide by PC with aqueous solvents, 373
- Amino acids
A study on kinetics of TLC of — on silica gel, 329
- S-(2-aminoethyl)-2-thiopseudourea
TLC of salts of — and its transformation products, 193
- 2-Aminothiazoline
TLC of salts of S-(2-aminoethyl)-2-thiopseudourea and its transformation products, 193
- Amino acids
N-trifluoroacetyl-L-norvalyl-L-norvaline cyclohexyl ester as a stationary phase and its interaction with asymmetric solutes, 227
- Antibiotic compounds
Bioautography of —: a simplification and improvement, 191
- Antibiotics
Chromatographic differentiation of erythromycin and its esters, 69
- Antimonates
Synthesis of tin(IV) antimonate of high thermal and chemical stability. Separation of Mg^{2+} from Sr^{2+} , Cd^{2+} , Cu^{2+} , Al^{3+} and La^{3+} , 351
- Azoxy compounds
Continuous trinitrotoluene process studies. IV. Identification and determination of purification byproducts, 255
- Benzene hydrocarbons
Contribution to the theory of the retention index system. IV. Retention index and molecular structure. Calculation of retention indices of olefins, cyclic hydrocarbons and homologues of — on the basis of their molecular structures, 203
- Benzophenone
TLC-enzymatic identification of some lindane- and possible DDT-metabolites as well as pentachlorophenol, 343
- Bis (2-guanidinoethyl)disulphide
TLC of salts of S-(2-aminoethyl)-2-thiopseudourea and its transformation products, 193
- Bismuth tellurate;
—; an inorganic ion exchanger, 389
- Blood urea
An improved technique for the analysis of amino acids and related compounds on thin layers of cellulose. VII. A simple technique for the estimation of — and of its clearance from plasma, 325
- Bonds
The systematic analysis of organosilicon compounds by chromatographic methods. II, 37
- Campesterol
Separation of β -sitosterol and — on hydrophobic hydroxylalkyl Sephadex LH-20, 170
- Carbamates
Fluorogenic labelling of — with dansyl-chloride. IV. *In situ* quantitation of N-methyl carbamate insecticides on thin-layer chromatograms, 87
- Carbonyl compounds
TLC of some α,β -unsaturated —. II, 186
- (\pm)-Catechin
The effect of solvent composition on the mobility of — on cellulose, 121
- Catechol amines
Separation of norepinephrine and its five major metabolites by PC, 129
- Cations
TLC of inorganic — on crystalline Cerium(IV) phosphate sulphate, 200
- Cellodextrins
Separation of xylodextrins by gel chromatography, 162

- Cellulose
The effect of solvent composition on the mobility of (\pm)-catechin on —, 121
- Chemotaxonomy
Cellulose TLC of phenolic substances, 105
- Cholesterol
Separation of β -sitosterol and campesterol on hydrophobic hydroxylalkyl Sephadex LH-20, 170
- Cigarette smoke condensate
Gel chromatographic separation of hydrocarbons, amines and phenols on a polystyrene gel column. Preparative fractionation of — for biological experiments, 299
- Cigarette smoke condensate
Preparative separation of polar substances of polycyclic aromatic hydrocarbons by gel partition chromatography. Fractionation of —, 175
- Coating apparatus
A new — for thin-layer plates, 182
- Column chromatography
TLC as a pilot technique for rapid CC, 261
- Computer simulation
Moments analysis in non-linear chromatography. II. The second moment, 1
- Computer simulation
Moments analysis in non-linear chromatography. III. The third moment, 13
- Dansyl amino acids
Identification of — using a single solvent and a layer composed of three sorbents, 368
- Dansyl chloride
Fluorogenic labelling of carbamates with —. IV. *In situ* quantitation of N-methyl carbamate insecticides on thin-layer chromatograms, 87
- Deoxyribonucleotides
Analysis of DNA derivatives. II. High-pressure liquid anion-exchange chromatography of —, 309
- [14 C]DDT
Degradation of — on Silica Gel G chromatograms under laboratory conditions, 179
- DDT
TLC-enzymatic identification of some lindane- and possible — metabolites as well as pentachlorophenol, 343
- Dibenzo-*p*-dioxins
An artefact in the GC determination of impurities in pentachlorophenol, 247
- 3,4-Dihydroxymandelic acid
Separation of norepinephrine and its five major metabolites by PC, 129
- 3,4-Dihydroxyphenylethylglycol
Separation of norepinephrine and its five major metabolites by PC, 129
- p*-(N,N-dimethylamino)benzene *p*'-azobenzoates
The separation and identification of phenols in the form of — by means of PC and TLC, 97
- Dipeptides
A study of the chromatographic properties of — by automatic ion-exchange chromatography, 315
- DNA derivatives
Analysis of —. II. High-pressure liquid anion-exchange chromatography of deoxyribonucleotides, 309
- Dyes
Purity control of some *o*-hydroxy-substituted thiazolylazo dyes by TLC, 335
- β -Emitters
The use of material labelled with soft — in the Laurell immunoelectrophoretic technique, 382
- Erythrocytes
Membrane chromatography of cells on sponge-like poly(2-hydroxyethyl) methacrylate, 362
- Erythromycin
Chromatographic differentiation of — and its esters, 69
- Erythromycin estolate
Chromatographic differentiation of erythromycin and its esters, 69
- Erythromycin ethyl succinate
Chromatographic differentiation of erythromycin and its esters, 69
- Fatty acid methyl esters
An improved method for collection and measurement of radioactivity in compounds separated by GLC, 221
- Functional groups
The systematic analysis of organosilicon compounds by chromatographic methods. II, 37
- Geometric isomers
TLC separations of some —, 184
- Gingerols
Natural pungent compounds. IV. Examination of the —, shogaols, paradols and related compounds by TLC and GC, 29
- Glucose
An improved method for collection and measurement of radioactivity in compounds separated by GLC, 221
- Glycerol
An improved method for collection and measurement of radioactivity in compounds separated by GLC, 221
- Herbicides
An artefact in the GC determination of impurities in pentachlorophenol, 247
- Hexanitrobenzyl
Continuous trinitrotoluene process studies. IV. Identification and determination of purification byproducts, 255
- Histidyl-peptides
Separation of — by TLC and microspectrofluorometric characterization of their *o*-phthalaldehyde-induced fluorescence, 81
- Hydrocarbon
GLC analysis of — mixtures. A report on the work of the International Conference of Benzole Producers, 237

Hydrocarbons

Contribution to the theory of the retention index system. IV. Retention index and molecular structure. Calculation of retention indices of olefins, cyclic — and homologues of benzene hydrocarbons on the basis of their molecular structure, 203

Hydrocarbons

Gel chromatographic separation of —, amines and phenols on a polystyrene gel column. Preparative fractionation of cigarette smoke condensate for biological experiments, 299

Hydrocarbons

Preparative separation of polar substances of polycyclic aromatic — by gel partition chromatography. Fractionation of cigarette smoke condensate, 175

Hydrophilic compounds

Separation of mixtures of lipophilic and — by gel distribution chromatography on Sephadex LH-20, 291

3-Hydroxy-4-ene steroids

A simple staining technique useful for distinguishing — from 3-hydroxy-5-ene steroids on silica gel thin layers, and for other purposes, 188

3-Hydroxy-5-ene steroids

A simple staining technique useful for distinguishing 3-hydroxy-4-ene from — on silica gel thin layers, and for other purposes, 188

3-Hydroxy-4-methoxy-mandelic acid

Separation of 4-hydroxy-3-methoxy and — by PC, 197

4-Hydroxy-3-methoxy mandelic acid

Separation of — and 3-hydroxy-4-methoxy-mandelic acid by PC, 197

Indole

A new reagent for detecting tryptophan, —, and indole-3-acetic acid in TLC, 371

Indole-3-acetic acid

A new reagent for detecting tryptophan, indole, and — in TLC, 371

Inorganic cations

TLC of — on crystalline Cerium(IV) phosphate sulphate, 200

Inorganic ion-exchanger

Bismuth tellurate; an —, 389

Insecticides

Fluorogenic labelling of carbamates with dansyl chloride. IV. *In situ* quantitation of N-methyl carbamate — on thin-layer chromatograms, 87

Insecticides

TLC-enzymatic identification of some lindane- and possible DDT-metabolites as well as pentachlorophenol, 343

Inverse GLC

— for the detection of order-disorder in poly(vinyl chloride), 153

Iodide

Separation of iodoamino acids and — by PC with aqueous solvents, 373

Iodoamino acids

Separation of — and iodide by PC with aqueous solvents, 373

Ion-exchange chromatography

A study of the chromatographic properties of dipeptides by automatic —, 315

Ion exchanger

Bismuth tellurate; an inorganic —, 389

Isozymes

A method of high resolution immunoelectrophoresis for the alcohol dehydrogenase —, 385

Lindane

TLC-enzymatic identification of some — and possible DDT-metabolites as well as pentachlorophenol, 343

Lipids

Quantitative liquid scintillation radioassay of phospho — from thin-layer chromatograms, 75

Lipids

A simplified technique for thin-layer microchromatography of —, 376

Lipophilic compounds

Separation of mixtures of — and hydrophilic compounds by gel distribution chromatography on Sephadex LH-20, 291

Membrane chromatography

— of cells on sponge-like poly(2-hydroxyethyl) methacrylate, 362

1-(2-Mercaptoethyl)guanidine

TLC of salts of S-(2-aminoethyl)-2-thiopseudourea and its transformation products, 193

Mescaline

TLC separations of some geometric isomers, 184

Metal ions

Synthesis of tin(IV) antimonate of high thermal and chemical stability. Separation of Mg^{2+} from Sr^{2+} , Cd^{2+} , Cu^{2+} , Al^{3+} and La^{3+} , 351

Methadone

Chromatographic separation of —, some of its metabolites and congeners, 379

3-Methoxy-4-hydroxymandelic acid

Separation of norepinephrine and its five major metabolites by PC, 129

3-Methoxy-4-hydroxyphenylethylglycol

Separation of norepinephrine and its five major metabolites by PC, 129

N-Methyl carbamate insecticides

Fluorogenic labelling of carbamates with dansyl chloride. IV. *In situ* quantitation of — on thin-layer chromatograms, 87

Molecular structure

Contribution to the theory of the retention index system. IV. Retention index and —. Calculation of retention indices of olefins, cyclic hydrocarbons and homologues of benzene hydrocarbons on the basis of their molecular structure, 203

Moments analysis

— in non-linear chromatography. II. The second moment, 1

- Moments analysis
 — in non-linear chromatography, III.
 The third moment, 13
- Nitrogen bases
 Phosphoric acid as a subtracting agent for
 — in reaction GC, 366
- Non-linearity parameter
 Moments analysis in non-linear chromatography, III. The third moment, 13
- Norepinephrine
 Separation of — and its five major metabolites by PC, 129
- Normetanephrine
 Separation of norepinephrine and its five major metabolites by PC, 129
- Olefins
 Contribution to the theory of the retention index system. IV. Retention index and molecular structure. Calculation of retention indices of —, cyclic hydrocarbons and homologues of benzene hydrocarbons on the basis of their molecular structures, 203
- Oligoribonucleotides
 Partition coefficients of — in saline solvent systems, 277
- Order-disorder in poly(vinyl chloride)
 Inverse GLC for detection of —, 153
- Organic anions
 Fluorescent colouration of — with pinacryptol yellow on cellulose layers, 113
- Organochlorine pesticide residues
 Removal of interfering substances from vegetable extracts prior to the determination of —, 173
- Organosilicon compounds
 The systematic analysis of — by chromatographic methods. II., 37
- Oxidipropionitrile
 Characteristics of retention in GLC, 213
- Paradols
 Natural pungent compounds. IV. Examination of the gingerols, shogaols, — and related compounds by TLC and GC, 29
- Peak variance
 Moments analysis in non-linear chromatography. II. The second moment, 1
- Pentachlorophenol
 An artefact in the GC determination of impurities in —, 247
- Pentachlorophenol
 TLC-enzymatic identification of some lindane- and possible DDT-metabolites as well as —, 343
- Peptides
 A convenient gel chromatography method for determining the molecular weight distributions and averages of synthetic poly- — collagen models, 157
- Peptides
 Separation of histidyl- — by TLC and microspectrofluorometric characterization of their *o*-phthalaldehyde-induced fluorescence, 81
- Pesticides
 An artefact in the GC determination of impurities in pentachlorophenol, 247
- Pesticides
 Degradation of [¹⁴C]DDT on Silica Gel G chromatograms under laboratory conditions, 179
- Pesticides
 Fluorogenic labelling of carbamate with dansyl chloride. IV. *In situ* quantitation on N-methyl carbamate insecticides on thin-layer chromatograms, 87
- Pesticide
 Removal of interfering substances from vegetable extracts prior to the determination of organochlorine — residues, 173
- Phenolic substances
 Cellulose TLC of —, 105
- Phenols
 Gel chromatographic separation of hydrocarbons, amines and — on a polystyrene gel column. Preparative fractionation of cigarette smoke condensate for biological experiments, 299
- Phenols
 The separation and identification of — in the form of *p*-(N,N-dimethylamino)benzene *p'*-azobenzoates by means of PC and TLC, 97
- Phenylalanine
 A rapid chromatographic determination of — and tyrosine for phenylketonuria screening, 49
- Phenylketonuria
 A rapid chromatographic determination of phenylalanine and tyrosine for — screening, 49
- o*-Phthalaldehyde
 Separation of histidyl-peptides by TLC and microspectrofluorometric characterization of their — induced fluorescence, 81
- Phospholipids
 Quantitative liquid scintillation radioassay of — from thin-layer chromatograms, 75
- Phosphoric acid
 A new reagent for detecting tryptophan, indole, and indole-3-acetic acid in TLC, 371
- Phosphoric acid
 — as a subtracting agent for nitrogen bases in reaction GC, 366
- Pinacryptol yellow
 Fluorescent colouration of organic anions with — on cellulose layers, 113
- Polar substances
 Preparative separation of — of polycyclic aromatic hydrocarbons by gel partition chromatography. Fractionation of cigarette smoke condensate, 175
- Polycyclic aromatic hydrocarbons
 Preparative separation of polar substances of — by gel partition chromatography. Fractionation of cigarette smoke condensate, 175

- Poly(2-hydroxyethyl) methacrylate
Membrane chromatography of cells on sponge-like —, 362
- Polypeptide collagen models
A convenient gel chromatography method for determining the molecular weight distributions and averages of synthetic —, 157
- Pungent compounds
Natural —. IV. Examination of the gingerols, shogaols, paradols and related compounds by TLC and GC, 29
- Radioactivity
An improved method for collection and measurement of — in compounds separated by GLC, 221
- Radioassay
Quantitative liquid scintillation — of phospholipids from thin-layer chromatograms, 75
- Rapid column chromatography
TLC as a pilot technique for —, 261
- Rat bone marrow cells
Adherence chromatography of —, 63
- Retention
Characteristics of — in GLC, 213
- Retention index system
Contribution to the theory of the —. IV. Retention index and molecular structure. Calculation of retention indices of olefins, cyclic hydrocarbons and homologues of benzene hydrocarbons on the basis of their molecular structures, 203
- Second moment
Moments analysis in non-linear chromatography. II. The —, 1
- Shogaols,
Natural pungent compounds. IV. Examination of the gingerols, —, paradols and related compounds by TLC and GC, 29
- β -Sitosterol
Separation of — and campesterol on hydrophobic hydroxyalkyl Sephadex LH-20, 170
- Slimicides
An artefact in the GC determination of impurities in pentachlorophenol, 247
- Solution phenomena
The contribution of adsorption and — phenomena in gas-liquid partition chromatography systems in which infinite dilution of solute may be assumed, 21
- Squalane
Characteristics of retention in GLC, 213
- Steroids
A simple staining technique useful for distinguishing 3-hydroxy-4-ene from 3-hydroxy-5-ene — on silica gel thin layers, and for other purposes, 188
- Sterols
Separation of β -sitosterol and campesterol on hydrophobic hydroxyalkyl Sephadex LH-20, 170
- Subtracting agent
Phosphoric acid as a — for nitrogen bases in reaction GC, 366
- Sulphated surface-active agents
The determination of the unsulphated material contents of — by liquid chromatography, 149
- Thiazolylazo dyes
Purity control of some *o*-hydroxy-substituted — by TLC, 335
- Third moment
Moments analysis in non-linear chromatography. III. The —, 13
- Thyroxine
The use of material labelled with soft β -emitters in the Laurell immunoelectrophoretic technique, 382
- Thyroxine-binding globulin
The use of material labelled with soft β -emitters in the Laurell immunoelectrophoretic technique, 382
- Tin(IV) antimonate
Synthesis of — of high thermal and chemical stability. Separation of Mg^{2+} from Sr^{2+} , Cd^{2+} , Cu^{2+} , Al^{3+} and La^{3+} , 351
- N-Trifluoroacetyl-D,L-amino acid isopropyl esters
N-trifluoroacetyl-L-norvalyl-L-norvaline cyclohexyl ester as a stationary phase and its interaction with asymmetric solutes, 227
- N-Trifluoroacetyl-L-norvalyl-L-norvaline cyclohexyl ester
— as a stationary phase and its interaction with asymmetric solutes, 227
- Trinitrotoluene
Continuous — process studies. IV. Identification and determination of purification byproducts, 255
- Tryptophan
A new reagent for detecting —, indole, and indole-3-acetic acid in TLC, 371
- Tyrosine
A rapid chromatographic determination of phenylalanine and — for phenylketonuria screening, 49
- Unsulphated material contents
The determination of the — of sulphated surface-active agents by liquid chromatography, 149
- Urea clearance
An improved technique for the analysis of amino acids and related compounds on thin layers of cellulose. VII. A simple technique for the estimation of blood urea and of its clearance from plasma, 325
- Vegetable extracts
Removal of interfering substances from — prior to the determination of organochlorine pesticide residues, 173
- Xylodextrins
Separation of — by gel chromatography, 162