SUBJECT INDEX

- 2-Acetamido-2-deoxy-4-*O*-α-, and -6-*O*-α-D-glucopyranosyl-β-D-glucopyranose, syntheses of the *p*-trifluoroacetamidophenyl glycosides of 39
- Acetonation of L-fucose, L-rhamnose, and 2deoxy-D-erythro-pentose under kinetically controlled conditions, 312
- Acidic xylan from the capsular polysaccharidecomplex of *Ocimum gratissimum* seeds, an, 83
- Action of tomato and Aspergillus foetidus pectinesterases on oligomeric substrates esterified with diazomethane, 105
- Alkali-catalyzed oxidation of D-glucose with sodium 2-anthraquinonesulfonate in ethanol-water solutions, 61
- Alkaline, oxidative degradation of saccharides. Identification of 2,5-dihydroxy-p-benzo-semiquinone, e.s.r. study of, 263
- Aloe vahombe, structural studies of the glucomannan from, 166
- L-Amino acids, n.m.r. spectroscopy of N-(1-deoxy-L-fructos-1-yl)-, 183
- p-Aminophenyl 2-O-acetyl-3-O- α -L-rham-nopyranosyl- α -L-rhamnopyranoside, synthesis of, 308
- 1,4-Anhydro-D-mannitol, synthesis of some monoacetals of, 49
- Antibiotically active disaccharide, synthesis of, 31 2-Azidoinosose derivatives, a simple synthesis of epimeric, 156
- Bacillus subtilis, cell wall-polypeptide complexes in 113
- 2-Bromoethyl glycosides, synthesis and characterisation of, 303
- Capsular polysaccharide-complex of *Ocimum* gratissimum seeds, an acidic xylan from the, 83
- Carrageenans, molecular weight distribution and hydrolysis behaviour of, 89
- Cell wall-polypeptide complexes in *Bacillus sub*tilis, 113
- 3-Chloroformyl-2,2,5,5,-tetramethylpyrroline-1-oxide, esterification of polysaccharides with, C1
- Chromatographic separation of oligosaccharides from mannosidosis urine, 171
- Complexes, cell wall-polypeptide, in *Bacillus* subtilis, 113

- Cyclomaltohexaose inclusion-complexes, molecular motion of p-substituted phenols in solidstate, C5
- N-(1-Deoxy-D-fructos-1-yl)-L-amino acids, n.m.r. spectroscopy of, 183
- 5-Deoxy-5-fluorosporaricin A, synthesis of, 289
- 1-Deoxy-D-erythro-2,3-hexodiulose and its conversion into nonenzymic browning products, synthesis of a derivative of, 209
- 1,2:4,6-Di-O-benzylidene-α-D-glucopyranose derivatives, hydrogenolysis with the LiAlH₄-AlCl₃ reagent of the isomeric, 217
- Epimeric 2-azidoinosose derivatives, a simple synthesis of, 156
- E.s.r. study of alkaline, oxidative degradation of saccharides. Identification of 2,5-dihydroxy-p-benzosemiquinone, 263
- 3-Fluoro-, 3-epi-3-fluoro-, and 3,3-difluoro-3-de(methoxy)sporaricin A, syntheses of, 277
- Foam separation of some polysaccharide mixtures. 1
- Formoin reaction, studies of the, 197
- L-Fucose, acetonation of, under kinetically controlled conditions, 312
- D-Galactopyranose, 2-acetamido-2-deoxy-3,4-di-O-β-D-galactopyranosyl-, a practical synthesis of 71
- β -D-Galactosidase, from Aspergillus niger, substrate specificity and other properties of the, 127
- β-D-Galactosidase from E. coli, N-substituted D-galactosylamines as probes for the active site of, 95
- G.l.c.-m.s. of mixtures of enantiomeric tetruloses and pentuloses as trifluoroacetylated O-(-)-menthyloxime derivatives, 139
- Glucomannan from *Aloe vahombe*, structural studies of the, 166
- D-Glucose, alkali-catalyzed oxidation of, with sodium 2-anthraquinonesulfonate in ethanolwater solutions, 61
- Glucosiduronic acid, ethyl 2,3,4-tri-*O*-acetyl-β-D-, methyl ester, the crystal and molecular structures of, 150

C18 SUBJECT INDEX

- (Glucosyl bromide)uronic acid, 2,3,4-tri-Oacetyl-α-D-, methyl ester, the crystal and molecular structures of, 150
- Glycopeptides having clusters of O-glycosylic disaccharide-chains located at vicinal amino acid residues of the peptide chain, synthesis of, C9
- Glycosidation reactions using 1-thioglycosides as glycosyl donors and thiophilic cations as promoters, a reinvestigation of, 162
- Glycosides, synthesis and characterisation of 2bromoethyl, 303
- O-Glycosylic disaccharide-chains located at vicinal amino acid residues of the peptide chain, synthesis of glycopeptides having clusters of, C9
- 2,3-Hexodiulose and its conversion into nonenzymic browning products, synthesis of a derivative of 1-deoxy-D-erythro-, 209
- β-1.-lyxo-Hexopyranoside, methyl 2-acetamido-2,3,6-trideoxy-, synthesis of, 227
- Hydrogenolysis of the isomeric 1,2:4,6-di-O-benzylidene-α-D-glucopyranose derivatives with the LiAlH₄-AlCl₃ reagent, 217
- Hydrolysis behaviour of carrageenans, molecular weight distribution and, 89
- Inclusion complexes, molecular motion of *p*-substituted phenols in solid-state cyclomaltohexaose, C5
- Indol-4-one, 1-benzyl-4,5,6,7-tetrahydro-6,6-dimethyl-2-(D-galacto-pentitol-1-yl)-, new C-nucleoside analogs by dehydration of, 255
- Isolation and characterization of a 3.4-pyruvic acetalated-D-galactose-containing oligosac-charide obtained from the capsular polysac-charide of *Klebsiella* K33 by Smith degradation, 271
- Intermediates in the synthesis of LactrilleTM: the crystal and molecular structures of methyl (2,3,4-tri-O-acetyl-α-1.-glucosyl bromide)uronate and methyl (ethyl 2,3,4-tri-O-acetyl-β-D-glucosid)uronate, 150
- LaetrileTM, intermediates in the synthesis of, 150 LiAlH₄-AlCl₃ reagent, hydrogenolysis of the isomeric 1,2:4,6-di-O-benzylidene-α-D-glucopyranose derivatives with the, 217
- Mannose and 4-deoxy-4-fluoro-D-mannose, synthesis of 3-deoxy-3-fluoro-D-, 21
- O-(-)-Menthyloxime derivatives, g.l.c.-m.s. of mixtures of enantiomeric tetruloses and pentuloses as trifluoroacetylated, 139
- Methyl 2,6-dideoxy- and methyl 3,6-dideoxy-α-Darabino-hexopyranoside, a simple preparation of, by photochemical deoxygenation, 295

Molecular motion of *p*-substituted phenols in solid-state cyclomaltohexaose inclusion-complexes, C5

- Molecular weight distribution and hydrolysis behaviour of carrageenans, 89
- Monoacetals of 1,4-anhydro-D-mannitol, synthesis of some, 49
- Neamin, synthesis of disaccharide similar to, 31 New C-nucleoside analogs by dehydration of 1-benzyl-4,5,6,7-tetrahydro-6,6-dimethyl-2-(Dgalacto-pentitol-1-yl)-indol-4-one, 255
- ¹³C-N.m.r.-spectral study of some biologically relevant, synthetic thio sugars, 144
- N.m.r. spectroscopy of N-(1-deoxy-D-fructos-1-yl)-L-amino acids ("fructose-amino acids"), 183
- C-Nucleosides, new analogs of, by dehydration of 1-benzyl-4,5.6,7-tetrahydro-6,6-dimethyl-2-(Dgalacto-pentitol-1-yl)-indol-4-one, 255
- Oligosaccharide, a 3,4-pyruvic acetalated-D-galactose-containing, obtained from the capsular polysaccharide of *Klebsiella* K33 by Smith degradation, isolation and characterization, 271
- Oligosaccharides, from mannosidosis urine, chromatographic separation of, 171
- Oxazolines, 2-amino(glycofurano)-, ¹⁵N-labeled, synthesis of, *via* glycosylamine intermediates, 239
- Oxidation, alkali-catalyzed, of D-glucose, with sodium 2-anthraquinonesulfonate in ethanolwater solutions, 61
- Pectinesterases, of tomato and Aspergillus foetidus, the action of, on oligomeric substrates esterified with diazomethane, 105
- Pentose, 2-deoxy-D-*erythro*-, acetonation of, under kinetically controlled conditions, 312
- Photochemical deoxygenation, a simple preparation, of methyl 2,6-dideoxy- and methyl 3,6-dideoxy-α-D-arabino-hexopyranoside by, 295
- Polysaccharides, spin-labeling by esterification of, C1
- Polysaccharides, the foam separation of some mixtures of, I
- Practical synthesis of 2-acctamido-2-deoxy-3,4-di-O-β-D-galactopyranosyl-D-galactopyranose, 71
- Preparation of methyl 2.6-dideoxy- and methyl 3.6-dideoxy-α-D-arabino-hexopyranoside by photochemical deoxygenation, a simple, 295
- Probes for the active site of β-D-galactosidase from E. coli, N-substituted D-galactosylamines as, 95

SUBJECT INDEX C19

- Reinvestigation of glycosidation reactions using 1thioglycosides as glycosyl donors and thiophilic cations as promoters, 162
- $3-O-\alpha$ -L-Rhamnopyranosyl- α -L-rhamnopyranoside, synthesis of p-aminophenyl, 308
- L-Rhamnose, acetonation of, under kinetically controlled conditions, 312
- Saccharides. Identification of 2,5-dihydroxy-pbenzosemiquinone, e.s.r. study of alkaline, oxidative degradation of, 263
- Spin-labeling of polysaccharides *via* esterification,
- Sporaricin A, syntheses of 3-fluoro-, 3-epi-3-fluoro-, and 3,3-difluoro-3-de(methoxy), 277
- Sporaricin A, synthesis of 5-deoxy-5-fluoro, 289
 Structural studies of the gluoropage from 410
- Structural studies of the glucomannan from *Aloe* vahombe, 166
- Studies of the formoin reaction, 197
- *N*-Substituted D-galactosylamines as probes for the active site of β -D-galactosidase from *E*. coli, 95
- Substrate specificity and other properties of the β -D-galactosidase from *Aspergillus nìger*, 127
- Sugars, thio, ¹³C-n.m.r.-spectral study of some biologically relevant, synthetic, 144
- Syntheses of 3-fluoro-, 3-epi-3-fluoro-, and 3,3-difluoro-3-de(methoxy)sporaricin A, 277
- Syntheses of the *p*-trifluoroacetamidophenyl glycosides of 2-acetamido-2-deoxy-4-*O* and -6-*O*-α-D-glucopyranosyl-β-D-glucopyranose, 39
- Synthesis and characterisation of 2-bromoethyl glycosides, 303
- Synthesis of a derivative of 1-deoxy-D-erythro-2,3hexodiulose and its conversion into nonenzymic browning products, 209

- Synthesis of *p*-aminophenyl 2-*O*-acetyl-3-O- α -L-rhamnopyranosyl- α -L-rhamnopyranoside, 308
- Synthesis of 3-deoxy-3-fluoro-D-mannose and 4-deoxy-4-fluoro-D-mannose, 21
- Synthesis of 5-deoxy-5-fluorosporaricin A, 289
- Synthesis of epimeric 2-azidoinosose derivatives, a simple, 156
- Synthesis of glycopeptides having clusters of *O*-glycosylic disaccharide-chains located at vicinal amino acid residues of the peptide chain, C9
- Synthesis of methyl 2-acetamido-2,3,6-trideoxyβ-L-lyxo-hexopyranoside, 227
- Synthesis of nitrogen-15-labeled 2-amino-(glycofurano)oxazolines *via* glycosylamine intermediates, 239
- Synthesis of some monoacetals of 1,4-anhydro-D-mannitol, 49
- Tetraaminotetradeoxydisaccharide, antibiotically active, synthesis of, 31
- Tetruloses and pentuloses, g.l.c. of mixtures of enantiomeric, as trifluoroacetylated *O*-(-)-menthyloxime derivatives, 139
- 1-Thioglycosides as glycosyl donors and thiophilic cations as promoters, a reinvestigation of glycosidation reactions using, 162
- Thio sugars, ¹³C-n.m.r.-spectral study of some biologically relevant, synthetic, 144
- p-Trifluoroacetamidophenyl glycosides of 2acetamido-2-deoxy-4-O- and -6-O-α-D-glucopyranosyl-β-D-glucopyranose, syntheses of, 39
- Xylan from the capsular polysaccharide-complex of *Ocimum gratissimum* seeds, an acidic, 83