

SUBJECT INDEX

- Acarviosin and 6-acetoxy analogue, synthesis of methyl hexa-*O*-acetyl, 486
- Acetals of D-hexopyranose residues, a stereoselective synthesis of pyruvic 4,6-, 247
- Alditols, 1-deoxy-1-nitro-, crystal structures of, 339
- Alkyl glycosides, n.m.r. studies of aqueous systems of cyclomaltohexaose and, 101
- O*-Alkylation at the anomeric centre for the stereoselective synthesis of Kdo- α -glycosides, 287
- Amino sugars, reaction of malondialdehyde with, 167
- 2-Amino-2-deoxy-D-glucose, a reinvestigation of the use of *N*-*p*-methoxybenzylidene derivatives of, as glycosyl donors, 319
- 3-Aminoinosose derivatives, two routes to enantiomerically pure, 237
- Analysis of oligosaccharide epitopes of meningococcal lipopolysaccharides by f.a.b.-mass spectrometry, 59
- 1,6-Anhydro- β -D-glucopyranose (levoglucosan), stereocontrolled synthesis of lankanolide segments from, 209
- Anomalous Zemplén deacylation reactions of 2-*O*-acyl-3-*O*-alkyl or -3-*O*-glycosyl derivatives of D-galactose and D-glucose, 201
- Antigen, the structure of *Escherichia coli* K26, 457
- Bacteriophage-mediated depolymerisation in investigations of the structure of the capsular polysaccharide from *Klebsiella* serotype K71, the use of, 409
- "Bisected" structures of *N*-glycoproteins, synthesis of nonasaccharide sequence of, 127
- Carbohydrates, a reappraisal of the complexing of copper ions with, 181
- Chair distortion in "tetra-axial" derivatives of 2,3,4-tri-*O*-benzoyl- β -D-xylopyranose, on the extent of, 91
- 4-Chloro-4-deoxy- α -D-galactopyranosyl 3,4-anhydro-1,6-dichloro-1,6-dideoxy- β -D-lyxo-hexulofuranoside, synthesis and ring-opening reactions of, 189
- Complexing of carbohydrates with copper ions: a reappraisal, 181
- Configurational reassignment of *N*-substituted methyl 3,6-di-*O*-benzoyl-2-deoxy-2-hydroxy-amino- α -D-hexopyranosid-4-uloses, 469
- Conformational and X-ray investigation of 6-deoxy-7-*C*-(2-furyl)-1,2:3,4-di-*O*-isopropylidene-1-*glycero*- α -D-*galacto*-heptopyranose, 1
- Convenient preparation of per-2,6-di-*O*-methylcyclomalto-oligosaccharides, 481
- Convenient syntheses of 5-*O*- and 3,5-di-*O*-(β -D-galactofuranosyl)-D-galactofuranose, 227
- Copper ions, a reappraisal of the complexing of carbohydrates with, 181
- Crystallographic conformations of two enopyranuronates, the effect of double-bond geometry on the, 77
- Cyclomaltoheptaose, distribution of substituents in 2-hydroxypropyl ethers of, 429
- Cyclomaltohexaose, n.m.r. studies of aqueous systems of alkyl glycosides and, 101
- Cyclomalto-oligosaccharides, a convenient preparation of per-2,6-di-*O*-methyl-, 481
- Deacylation reactions of 2-*O*-acyl-3-*O*-alkyl or -3-*O*-glycosyl derivatives of D-galactose and D-glucose, 201
- 1-Deoxy-1-nitroalditols, crystal structures of, 339
- Details of the fine structure of nigeran revealed by the kinetics of its oxidation by periodate, 403
- Diastereoisomers of the pseudodisaccharide (3,4,6/5)-3,4-epoxy-6-(β -D-galactopyranosylthio)-5-hydroxycyclohexene, synthesis of the, 355
- Di-*O*-isopropylidene-1-*glycero*- α -D-*galacto*-heptopyranose, X-ray and conformational investigation of 6-deoxy-7-*C*-(2-furyl)-1,2:3,4-, 1
- Distribution of substituents in 2-hydroxypropyl ethers of cyclomaltoheptaose, 429
- Double-bond geometry on the crystallographic conformations of two enopyranuronates, the effect of, 77
- Enantiomers of galactose, the enzymic determination of the, 499
- Enopyranuronates, the effect of double-bond geometry on the crystallographic conformations of two, 77
- Enzymic determination of the enantiomers of galactose, 499
- Escherichia coli* K26 antigen, the structure of, 457
- Escherichia coli* O9:K57:H32, a structural investigation of the capsular polysaccharide of, 449

- α -L-Fucosyl disaccharides, purification of α -L-fucosidase by C-glycosylic affinity chromatography, and the enzymic synthesis of, 391
- O-(β -D-Galactofuranosyl)-D-galactofuranose, convenient syntheses of 5-O- and 3,5-di-, 227
- (β -D-Galactopyranosylmethyl)amines and C- β -D-galactopyranosyl-formamides, N-substituted, and related compounds, synthesis, 111
- Galactose, the enzymic determination of the enantiomers of, 499
- Galacturonic acid trisaccharides, synthesis of (1 \rightarrow 4)-linked, a proposed plant wound-hormone and a stereoisomer, 363
- α -L-Galacturonic acid unit, conversion of α -L-iduronic 2-sulfate unit of heparin into, 437
- Glycolipid of *Mycobacterium leprae*, n.m.r. and conformational analysis of the terminal trisaccharide from the serologically active, in different solvents, 33
- N-Glycoproteins, synthesis of nonasaccharide sequence of "bisected" structure of, 127
- Glycosyl donors, a reinvestigation of the use of N-3-methoxybenzylidene derivatives of 2-amino-2-deoxy-D-glucose as, 319
- C-Glycosylic affinity chromatography, purification of α -L-fucosidase by, and the enzymic synthesis of α -L-fucosyl disaccharides, 391
- Glycosyltransferases in the synthesis of sialyloligosaccharides, the use of immobilised, 257
- Goniothalenol, a short route to α,β -unsaturated-7,3-lactone-nucleosides related to, 493
- Heparin, conversion of α -L-iduronic acid 2-sulfate into α -L-galacturonic acid unit in, 437
- High-sensitivity structural analyses of oligosaccharide probes (neoglycolipids) by liquid-secondary-ion mass spectrometry, 47
- Hydroxypropyl ethers of cyclomaltoheptaose, distribution of substituent in 2-, 429
- α -L-Iduronic acid 2-sulfate unit of heparin conversion into α -L-galacturonic acid unit of, 437
- Interaction of cyclodextrins (cyclomalto-oligosaccharides) with glycolipids: n.m.r. studies of aqueous systems of cyclomaltohexaose and alkyl glycosides, 101
- Kdo- α -glycosides, O-alkylation at the anomeric centre for the stereoselective synthesis of, 287
- Klebsiella* serotype K71, the use of bacteriophage-mediated depolymerisation in investigations of the structure of the capsular polysaccharide from, 409
- Lankanolide segments, stereocontrolled synthesis of, from 1,6-anhydro- β -D-glucopyranose (levoglucosan), 209
- Malondialdehyde, reaction of amino sugars with, 167
- Mannopyranoside, synthesis of methyl 3-O- α -D-galactopyranosyl-6- α -D-mannopyranosyl- α -D-, and related trisaccharide glycosides, 475
- Mass spectrometry, analysis of oligosaccharide epitopes of meningococcal lipopolysaccharides by f.a.b., 59
- Mass spectrometry, high-sensitivity structural analyses of oligosaccharide probes (neoglycolipids) by liquid-secondary-ion, 47
- N-p-Methoxybenzylidene derivatives of 2-amino-2-deoxy-D-glucose as glycosyl donors, a reinvestigation of the use, 319
- Methyl hexa-O-acetylacerviosin and the 6-acetoxy analogue, synthesis of, 486
- Methyl 3,6-di-O-benzoyl-2-deoxy-2-hydroxyamino- α -D-hexopyranosid-4-uloses, a configurational reassignment of N-substituted, 469
- Methyl 3-O- α -D-galactopyranosyl-6-O- α -D-mannopyranosyl- α -D-mannopyranoside and related trisaccharide glycosides, synthesis of, 475
- Nigeran, details of the fine structure of, revealed by the kinetics of its oxidation by periodate, 403
- 1-Nitroalditols, 1-deoxy-, crystal structures of, 339
- N.m.r. and conformational analysis of the terminal trisaccharide from the serologically active glycolipid of *Mycobacterium leprae* in different solvents, 33
- Nonasaccharide sequence of "bisected" structure of N-glycoproteins, synthesis of, 127
- Nucleosides related to goniothalenol, a short route to α,β -unsaturated-7,3-lactone-, 493
- Oligosaccharide epitopes of meningococcal lipopolysaccharides, analysis by f.a.b.-mass spectrometry, 59
- Oligosaccharide probes (neoglycolipids), high-sensitivity structural analyses of, by liquid-secondary-ion mass spectrometry, 47
- Oligosaccharides, structural analysis of xyloglucan, by ^1H -n.m.r. spectroscopy and f.a.b.-mass spectrometry, 9
- Oxidation by periodate, details of the fine structure of nigeran revealed by the kinetics of its, 403
- Pivaloylation, syntheses of hepta-, hexa-, and penta-pivalates of trehalose by selective, 307
- Polysaccharide of *Escherichia coli* O9:K57:H32, a structural investigation of the capsular, 449
- Polysaccharide from *Klebsiella* serotype K71, the use of bacteriophage-mediated depolymerisation in investigations of the structure of the capsular, 409

- Preparation of per-2,6-di-*O*-methylcyclomalto-oligosaccharides, a convenient, 481
- Pseudodisaccharide (3,4,6/5)-3,4-epoxy-6-(β -D-galactopyranosylthio)-5-hydroxycyclohexene, synthesis of the diastereoisomers of the, 355
- Purification of α -L-fucosidase by *C*-glycosylic affinity chromatography, and the enzymic synthesis of α -L-fucosyl disaccharides, 391
- Pyruvic 4,6-acetals of D-hexopyranose residues, a stereoselective synthesis of, 247
- Reaction of amino sugars with malondialdehyde, 167
- Reactive pseudo-oligosaccharides as potential irreversible inhibitors for sugar-binding proteins: synthesis of the diastereoisomers of (3,4,6/5)-3,4-epoxy-6-(β -D-galactopyranosylthio)-5-hydroxycyclohexene, 355
- Ring-opening reactions of 4-chloro-4-deoxy- α -D-galactopyranosyl 3,4-anhydro-1,6-dichloro-1,6-dideoxy- β -D-*lyxo*-hexulofuranoside, synthesis and, 189
- Routes to enantiomerically pure 3-aminoinosose derivatives, 237
- Sialyl-lactotetraosylceramide and sialylneolactotetraosylceramide, stereoselective synthesis of, 269
- Sialyloligosaccharides, the use of immobilised glycosyltransferases in the synthesis of, 257
- Simple preparation of 2,3,4,6-tetra-*O*-acetyl 1-*S*-acetyl-1-thio- α -D-glucopyranose, 497
- Stereocontrolled synthesis of lankanolide from 1,6-anhydro- β -D-glucopyranose (levoglucosan): synthesis of the C-1/7 and C-8/15 segments, 209
- Stereoselective synthesis of Kdo- α -glycosides, *O*-alkylation at the anomeric centre for the, 287
- Stereoselective synthesis of pyruvic 4,6-acetals of D-hexopyranose residues, 247
- Stereoselective synthesis of sialyl-lactotetraosylceramide and sialylneolactotetraosylceramide, 269
- Structural analysis of xyloglucan oligosaccharides by ¹H-n.m.r. spectroscopy and f.a.b.-mass spectrometry, 9
- Structural investigation of the capsular polysaccharide of *Escherichia coli* O9:K57:H32, 449
- Structure of *Escherichia coli* K26 antigen, 457
- N*-Substituted (β -D-galactopyranosylmethyl)amines, and *C*- β -D-galactopyranosylformamides, and related compounds, 111
- N*-Substituted methyl 3,6-di-*O*-benzoyl-2-deoxy-2-hydroxyamino- α -D-hexopyranosid-4-uloses: a configurational reassignment, 469
- Syntheses of hepta-, hexa-, and penta-pivalates of trehalose by selective pivaloylation, 307
- Syntheses of 5-*O*- and 3,5-di-*O*-(β -D-galactofuranosyl)-D-galactofuranose, convenient, 227
- Synthesis and ring-opening reactions of 4-chloro-4-deoxy- α -D-galactopyranosyl 3,4-anhydro-1,6-dichloro-1,6-dideoxy- β -D-*lyxo*-hexulo-furanoside, 189
- Synthesis of a trehalose homolog, 6-deoxy- α -D-*gluco*-heptopyranosyl 6-deoxy- α -D-*gluco*-heptopyranoside, and the corresponding bis(heptosiduronic acid), 377
- Synthesis of (1 \rightarrow 4)-linked galacturonic acid trisaccharides, a proposed plant wound-hormone and a stereoisomer, 363
- Synthesis of methyl hexa-*O*-acetylacerviosin and the 6-acetoxy analogue, 486
- Synthesis of methyl 3-*O*- α -D-galactopyranosyl-6-*O*- α -D-mannopyranosyl- α -D-mannopyranoside and related trisaccharide glycosides, 475
- Synthesis of *O*- α -D-mannopyranosyl-(1 \rightarrow 4)-*O*- α -D-rhamnopyranosyl-(1 \rightarrow 3)-D-galactose and an intermediate for the preparation of 2-*O*-glycosyl-3-*O*-(α -D-mannopyranosyl)-D-glucoses, 201
- Synthesis of sialyl-lactotetraosylceramide and sialylneolactotetraosylceramide, stereoselective, 269
- "Tetra-axial" derivatives of 2,3,4-tri-*O*-benzoyl- β -D-xylopyranose, on the extent of chair distortion in, 91
- 2,3,4,6-Tetra-*O*-acetyl-1-*S*-acetyl-1-thio- α -D-glucopyranose, a simple preparation of, 497
- 1-Thio- α -D-glucopyranose, a simple preparation of 2,3,4,6-tetra-*O*-acetyl-1-*S*-acetyl-, 497
- Trehalose homolog (6-deoxy- α -D-*gluco*-heptopyranosyl 6-deoxy- α -D-*gluco*-heptopyranoside), synthesis of a, and the corresponding bis(heptosiduronic acid), 377
- Trehalose, syntheses of hepta-, hexa-, and penta-pivalates of, by selective pivaloylation, 307
- 2,3,4-Tri-*O*-benzoyl- β -D-xylopyranose, on the extent of chair distortion in "tetra-axial" derivatives of, 91
- Trisaccharide from the serologically active glycolipid of *Mycobacterium leprae* in different solvents, n.m.r. and conformational analysis of the terminal, 33
- Trisaccharides (a proposed plant wound-hormone and a stereoisomer), synthesis of (1 \rightarrow 4)-linked galacturonic acid, 363
- α,β -Unsaturated-7,3-lactone-nucleosides *via* an intramolecular Wittig reaction: a short route to nucleosides related to goniothalenol, 493
- Use of immobilised glycosyltransferases in the synthesis of sialyloligosaccharides, 257
- X-ray and conformational investigation of 6-deoxy-7-*C*-(2-furyl)-1,2:3,4-di-*O*-isopropylidene-L-*glycero*- α -D-galacto-heptopyranose, 1
- Xyloglucan oligosaccharides, structural analysis of, by ¹H-n.m.r. spectroscopy and f.a.b.-mass spectrometry, 9