SUBJECT INDEX

- Absolute configuration of monosaccharides using (-)-2-tert-butyl-2-methyl-1,3-benzodioxole-4-carboxylic Acid, determination of the, 63
- Acetobacter methanolicus MB 58/4 (IMET 10945), structure of the extracellular polysaccharide of, 247
- Amyloglucan and a soluble glucan produced from starch by *Streptococcus sanguis* 1 MC 204, structural studies of, 201
- Analysis of sialyloligosaccharides, conformational, 27
- Anhydro-2,3-dideoxy-D-galacto- and D-gluconon-3-enose dimethyl acetal and their use as new probes for determining by H-n.m.r. spectroscopy the steric course of glycoside hydrolases, synthesis of 4,8-, 129
- Anhydropyranoses, per-O-benzylated 1,3-, 1,2-, and 1,6-, e.i.-mass spectrometry of, 15
- Apiose and 3-deoxy-2-heptulosaric acid, evidence for the anomeric configuration and attachment sites of; structural characterization of two oligosaccharide fragments formed by the selective cleavage of rhamnogalacturonan II, 211
- D-Arabinitol, crystal structure of, 9
- D-Arabinitol, selective chlorination of, 75
- Benzylated 1,3-, 1,2-, and 1,6-anhydropyranoses, e.i.-mass spectrometry of, 15
- Coagulation factor G from limulus, activation by $(1\rightarrow 3)$ - β -D-glucans of, 167
- Configuration of monosaccharides using (-)-2-tert-butyl-2-methyl-1,3-benzodioxole-4-carboxylic acid, determination of the absolute, 63
- Conformational analysis of sialyloligosaccharides, 27
- 6-Corynomycolate of trehalose, synthesis of, 95 Crystal and molecular structures of D-glycero-D-manno-heptitol (α-sedoheptitol, volemitol) and D-glycero-D-gluco-hepitol (β-sedoheptitol), 55
- Cycloaddition of arylnitrile oxides to 5,6-dideoxy-1,2-O-isopropylidene-α-D-xylo-hex-5-enofuranose, regioselective synthesis of C-nucleosides by 1,3-dipolar, 121
- Cycloheptaamylose as a model for starch in the pyrolysis of polysaccharides, 157
- Determination of the absolute configuration of monosaccharides using (-)-2-tert-butyl-2-methyl-1,3-benzodioxole-4-carboxylic acid, 63

- 6,6'-Dicorynomycolate of trehalose, synthesis of, 95
- Diethyl dithioacetals of pentoses, reduction of benzylidene derivatives of, 83
- Dithioacetals, diethyl, pentoses, reduction of benzylidene derivatives of, 83
- Exopolysaccharide of *Rhizobium leguminosarum* by. *viciae* strain 248, unusual structure of the, 185
- (1→3)-β-D-Glucans, activation of a coagulation factor G by, 167
- Glycoside hydrolases, synthesis of 4,8-anhydro-2,3-dideoxy-D-galacto- and D-gluco-non-3enose dimethyl acetal and their use as new probes for determining by H-n.m.r. spectroscopy the steric course of, 129
- D-Gluco-, D-xylo-, and D-ribo-furanose, synthesis of isopropylidene derivatives by hydrolysis of related glycofuranosylamines, 233
- β-D-Glucopyranoside, 2,3,4,6-tetra-O-acetyl-, (2,2,6,6-tetramethylpiperidin-1-oxyl-4-yl), X-ray structure of, 1
- 5-Glycosyl-2-methyl-1,3,4-oxadiazole, synthesis and n.m.r. spectra of, 229
- 5-Glycosyl-2-phenyl-1,3,4-oxadiazole, synthesis and n.m.r. spectra of, 229
- Heptitol, crystal and molecular structures of Dglycero-D-manno- and D-glycero-D-gluco-, 55
- 2-Heptulosaric acid, 3-deoxy- and apiose, evidence for the anomeric configuration and attachment sites of; structural characterization of two oligosaccharide fragments formed by the selective cleavage of rhamnogalacturonan II, 211
- myo-Inositol nitrates, synthesis of some, 223
 Isopropylidene derivatives of D-gluco-, D-xylo-, and D-ribo-furanose, synthesis by hydrolysis of related glycofuranosylamines, 233
- Limulus coagulation factor G, activation by $(1 \rightarrow 3)$ - β -D-glucans of, 167
- Location and quantitation of the sites of O-acetylation on the capsular polysaccharide from Streptococcus pneumoniae type 9V by ¹H-n.m.r. spectroscopy, 175

Mass spectrometry of per-*O*-benzylated 1,3-, 1,2-, and 1,6-anhydropyranoses, 15
Monomers from sucrose. 237

Neuraminidases, viral and bacterial, linkage-specific substrates for, 111

Neuraminidases, synthesis of linkage-specific sialoside substrates for colorimetric assay of, 111 Nitrates, synthesis of some *myo*-inositol, 223

Nitroxide spin-label compound, X-ray structure of 1

C-Nucleosides, regioselective synthesis by 1,3-dipolar cycloaddition of arylnitrile oxides to 5,6-dideoxy - 1 - 2 - O - isopropylidene -α -D-xylo-hex-5-enofuranose, 121

1,3,4-Oxadiazoles, 2,5-disubstituted, synthesis from disaccharides and n.m.r. spectra of, 229

Oligosaccharide fragments formed by the selective cleavage of rhamnogalacturonan II, structural characterization of; evidence for the anomeric configuration and attachment sites of apiose and 3-deoxy-2-heptulosaric acid, 211

Pentitols, selective chlorination of, 75

Pentose diethyl dithioacetals, reduction of benzylidene derivatives of, 83

Polysaccharide of *Acetobacter methanolicus* MB 58/4 (IMET 10945), structure of the extracellular. 247

Polysaccharide from Streptococcus pneumoniae type 9V, location and quantitation of the sites of O-acetylation by ¹H-n.m.r. spectroscopy, 175

Polysaccharides, cycloheptaamylose as a model for starch in the pyrolysis of, 157

Pyrolysis of polysaccharides, cycloheptaamylose as a model for starch in the, 157

Pyrolysis of a xylan, thermal synthesis and, 143

Regioselective synthesis of C-nucleosides by 1,3-dipolar cycloaddition of arylnitrile oxides to 5,6-dideoxy-1,2-O-isopropylidene-α-D-xylo-hex-5-enofuranose, 121

Rhamnogalacturonan II, structural characterization of two oligosaccharide fragments formed by the selective cleavage of; evidence for the anomeric configuration and attachment sites of apiose and 3-deoxy-2-heptulosaric acid, 211

Rhizobium leguminosarum bv. viciae strain 248, unusual structure of the exopolysaccharide of, 185

Ribitol, selective chlorination of, 75

Sedoheptitol, crystal and molecular structures of α - and β -, 55

Sialoside substrates, linkage-specific for neuraminidase, synthesis of, 111

Sialyloligosaccharides, conformational analysis of, 27

Streptococcus sanguis 1 MC 204, structural studies of amyloglucan and a soluble glucan produced from starch by, 201

Streptococcus pneumoniae type-9V polysaccharide, location and quantitation of the sites of O-acetylation by H-n.m.r. spectroscopy, 175

Structural studies of amyloglucan and a soluble glucan produced from starch by *Streptococcus sanguis* 1 MC 204, 201

Structure of the exopolysaccharide of *Rhizobium* leguminosarum bv. viciae strain 248, 185

Structure of the extracellular polysaccharide of Acetobacter methanolicus MB 58/4 (IMET 10945), 247

Sucrose, monomers from, 237

Syntheses of isopropylidene derivatives of D-gluco-, D-xylo-, and D-ribo-furanose by hydrolysis of related glycofuranosylamines, 233

Synthesis of 4.8-anhydro-2,3-dideoxy-D-galactoand D-gluco-non-3-enose dimethyl acetal and their use as new probes for determining by H-n.m.r. spectroscopy the steric course of glycoside hydrolases, 129

Synthesis of some myo-inositol nitrates, 223

(2,2,6,6-Tetramethylpiperidin-1-oxyl-4-yl) 2,3,4, 6-O-acetyl-β-D-glucopyranoside, X-ray structure of, 1

Thermal synthesis and pyrolysis of a xylan, 143 Trehalose corynomycolates, synthesis of, 95

Xylan, thermal synthesis and pyrolysis of a, 143 Xylitol, selective chlorination of, 75