

SUBJECT INDEX

- 2-Acetamido-2,6-dideoxy-L-galactose, synthesis of, 258
- Adriamycinone, synthesis of antitumor-active 7-*O*-(2,6-dideoxy-2-fluoro- α -L-talopyranosyl)-daunomycinone and, 69
- Aldehyde-group participation, the reaction of 2,3:6,7-di-*O*-isopropylidene-5-*O*-methanesulphonyl-L-glycero-D-manno-heptofuranose with sodium methoxide: an, 234
- ω -Aminated 1-methoxyalkyl β -D-glucopyranosides as potential β -D-glucosidase inhibitors, syntheses of homologous, 53
- 1,6-Anhydro- β -D-glucopyranose (levoglucosan), a ready route to a functionalized anhydro derivative of, 247
- 1,6-Anhydrohexoses, selective deuteration over Raney nickel in deuterium oxide, 151
- 4,6-*O*-Benzylidene-2-*C*- and -3-*C*-*p*-tolylsulfonylhex-2-enopyranoside derivatives and a 2-*C*-*p*-tolylsulfonylhex-2-enitol derivative, preparation of, 189
- Convenient synthesis of 6-deoxy-2-*C*-methyl-D-mannitol and 2-*C*-(hydroxymethyl)-D-mannitol, branched-chain alditols, 252
- Crystal structure of the C-nucleoside, 1,3-dimethyl 8- β -D-ribofuranosyl xanthine monohydrate, 35
- Crystal structures of octyl α -D-glucopyranoside monohydrate and hemihydrate: mesogenic structures with interdigitizing alkyl chains, 1
- Cyclo{ \rightarrow 6}-[α -D-Glcp-(1 \rightarrow 4)]₅- α -D-Glcp-(1 \rightarrow), total synthesis of cyclomaltooctaose and an isomer of cyclomaltohexaose, 127
- Cyclomaltooctaose and an isomer of cyclomaltohexaose, cyclo{ \rightarrow 6}-[α -D-Glcp-(1 \rightarrow 4)]₅- α -D-Glcp-(1 \rightarrow), total synthesis of, 127
- 5-*O*-(4-Deoxy-4-fluoro- β -D-mycaminosyl)tylonolide, synthesis of, 241
- Deuteration over Raney nickel in deuterium oxide: 1,6-anhydrohexoses, selective, 151
- 7-*O*-(2,6-Dideoxy-2-fluoro- α -L-talopyranosyl)-daunomycinone and -adriamycinone, synthesis of antitumor-active, 69
- 1,3-Dimethyl 8- β -D-ribofuranosyl xanthine monohydrate, the crystal structure of the C-nucleoside, 35
- Dolichyl ester of tetrasaccharide diphosphate, synthesis, 213
- Escherichia coli* capsular antigen K34, structure of, 189
- D-Fructose in dimethyl sulfoxide, intramolecular hydrogen-bonding and solvation contributions to the relative stability of the β -furanose form of, 159
- F.t.i.r. spectra of oligo- and poly-nucleotides, 83
- L-Fucosamine, *N*-acetyl-, synthesis of, 258
- Functionalized anhydro derivative of 1,6-anhydro- β -D-glucopyranose (levoglucosan), a ready route to a, 247
- L-Galactose, 2-acetamido-2,6-dideoxy-, synthesis of, 258
- β -D-GalpNAc-(1 \rightarrow 4)- β -D-Galp-(1 \rightarrow 4)-D-GlcNAc, synthesis of, 105
- β -D-Galp-(1 \rightarrow 4)- β -D-GlcpNAc-(1 \rightarrow 3)- β -D-Galp-(1 \rightarrow 4)-D-Glc, synthesis of, 105
- β -D-Galp-(1 \rightarrow 4)- β -D-GlcpNAc-(1 \rightarrow 4)- β -D-Galp-(1 \rightarrow 4)-D-Glc, synthesis of, 105
- O*- β -D-GlcpNAc-(1 \rightarrow 3)-*O*- β -D-Galp-(1 \rightarrow 4)-D-GlcNAc, synthesis of, 201
- O*- β -D-GlcpNAc-(1 \rightarrow 3)-*O*- β -D-Galp-(1 \rightarrow 3)- α -D-GalpNAcOC₆H₄NO₂-2, synthesis of, 201
- O*- β -D-GlcpNAc-(1 \rightarrow 3)-*O*- β -D-Galp-(1 \rightarrow 3)- β -D-GalpNAcOC₆H₄NO₂-4, synthesis of, 201
- Glucopyranosides, synthesis and n.m.r. spectra of methyl 2-deoxy-2-fluoro- and 3-deoxy-3-fluoro- α - and β -D-, 23
- β -D-Glucosidase inhibitors, syntheses of homologous ω -aminated 1-methoxyalkyl β -D-glucopyranosides as potential, 53
- N¹-(*p*-Glycosyloxycinnamoyl)spermidines, synthesis of, 171
- Heptofuranose with sodium methoxide: an aldehyde-group participation, the reaction of 2,3:6,7-di-*O*-isopropylidene-5-*O*-methanesulphonyl-L-glycero-D-manno-, 234
- Intramolecular hydrogen-bonding and solvation contributions to the relative stability of the β -furanose form of D-fructose in dimethyl sulfoxide, 159
- Isomerization of monosaccharides by alkali, contribution of the reaction pathways involved in the, 13
- "Lacto-*N*-biose II" unit, synthesis of three trisaccharides containing the, 201
- Lactose derivatives, glycosylation at OH-3' and OH-4' of, 105
- Lipid intermediate (of glycoprotein biosynthesis), tetrasaccharide-, synthesis, 213

- Mannitol and 2-*C*-(hydroxymethyl)-D-mannitol, branched-chain alditols: a convenient synthesis of 6-deoxy-2-*C*-methyl-D-, 252
- Monosaccharides by alkali, contribution of the reaction pathways involved in the isomerization of, 13
- N.m.r. spectra of methyl 2-deoxy-2-fluoro- and 3-deoxy-3-fluoro- α - and β -D-glucopyranosides, synthesis and, 23
- C-Nucleoside, 1,3-dimethyl 8- β -D-ribofuranosyl xanthine monohydrate, the crystal structure of the, 35
- Nucleotides, f.t.-i.r. spectra of oligo- and poly-, 83
- Octyl α -D-glucopyranoside monohydrate and hemihydrate, crystal structures, 1
- Oligosaccharides by medium-pressure anion-exchange chromatography on Mono Q, separation of sialyl-, 43
- Preparation of 4,6-*O*-benzylidene-2-*C*- and -3-*C*-*p*-tolylsulfonylhex-2-enopyranoside derivatives and a 2-*C*-*p*-tolylsulfonylhex-2-enitol derivative, 189
- Reaction of 2,3:6,7-di-*O*-isopropylidene-5-*O*-methanesulphonyl-L-*glycero*-D-*manno*-heptofuranose with sodium methoxide: an aldehyde-group participation, 234
- Reaction pathways involved in the isomerization of monosaccharides by alkali, contribution of the, 13
- Route to a functionalized anhydro derivative of 1,6-anhydro- β -D-glucopyranose (levoglucosan), a ready, 247
- Selective deuteration over Raney nickel in deuterium oxide: 1,6-anhydrohexoses, 151
- Separation of sialyl-oligosaccharides by medium-pressure anion-exchange chromatography on Mono Q, 43
- Sialyl-oligosaccharides by medium-pressure anion-exchange chromatography on Mono Q, separation of, 43
- Spectra of oligo- and poly-nucleotides, F.t.-i.r., 83
- Spermidines, synthesis of *N*¹-(*p*-glycosyloxycinnamoyl), 171
- Stability of the β -furanose form of D-fructose in dimethyl sulfoxide, intramolecular hydrogen-bonding and solvation contributions to the relative, 159
- Syntheses of homologous ω -aminated 1-methoxyalkyl β -D-glucopyranosides as potential β -D-glucosidase inhibitors, 53
- Synthesis of antitumor-active 7-*O*-(2,6-dideoxy-2-fluoro- α -L-talopyranosyl)-daunomycinone and -adriamycinone, 69
- Synthesis of 5-*O*-(4-deoxy-4-fluoro- β -D-mycaminosyl)tylonolide, 241
- Synthesis of 6-deoxy-2-*C*-methyl-D-mannitol and 2-*C*-(hydroxymethyl)-D-mannitol, branched-chain alditols: a convenient, 252
- Synthesis of *N*¹-(*p*-glycosyloxycinnamoyl)spermidines, 171
- Synthesis of n.m.r. spectra of methyl 2-deoxy-2-fluoro- and 3-deoxy-3-fluoro- α - and β -D-glucopyranosides, 23
- Tetrasaccharide-lipid intermediate (of glycoprotein biosynthesis), synthesis, 213
- Total synthesis of cyclomaltooctaose and an isomer of cyclomaltohexaose, cyclo- $\{\rightarrow 6\}$ -[α -D-Glcp-(1 \rightarrow 4)]₅- α -D-Glcp-(1 \rightarrow), 127
- 3-*C*-*p*-Tolylsulfonylhex-2-enopyranoside derivatives and a 2-*C*-*p*-tolylsulfonylhex-2-enitol derivative, preparation of 4,6-*O*-benzylidene-2-*C*- and, 189
- Tylonolide, synthesis of 5-*O*-(4-deoxy-4-fluoro- β -D-mycaminosyl), 241