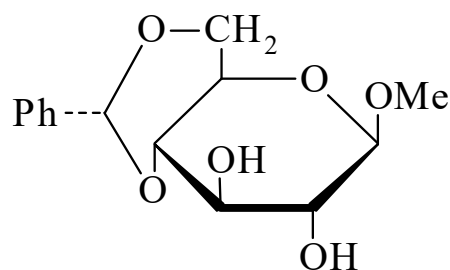




>>Entry Name: Methyl 4,6-*O*-benzylidene-β-D-glucopyranoside, 8Cl

Synonym(s): Methyl 4,6-*O*-(phenylmethylene)-β-D-glucopyranoside, 9Cl



CAS Registry Number: 14155-23-8

Related CAS Registry Numbers(s): 71117-37-8

Molecular Formula: C₁₄H₁₈O₆

Molecular Weight: 282.293

Accurate Mass: 282.11034

Percentage Composition: C 59.57%; H 6.43%; O 34.01%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 198-199°

Optical Rotation: [α]_D -67.4 (c, 0.98 in CHCl₃)

Other Data: The 2-OH and 3-OH groups show little selectivity in partial etherification or esterification reactions, unlike Methyl 4,6-*O*-benzylidene-α-D-glucopyranoside [BXC12-C](#)

>>Derivative: Di-Ac

Synonym(s): Methyl 2,3-di-*O*-acetyl-4,6-*O*-benzylidene-β-D-glucopyranoside

CAS Registry Number: 20750-01-0

Molecular Formula: C₁₈H₂₂O₈

Molecular Weight: 366.367

Accurate Mass: 366.13147

Percentage Composition: C 59.01%; H 6.05%; O 34.94%

Melting Point: Mp 171-172°

Optical Rotation: [α]_D -90.1 (CHCl₃)

>>Derivative: Dibenzoyl

Synonym(s): Methyl 2,3-di-*O*-benzoyl-4,6-*O*-benzylidene-β-D-glucopyranoside

Molecular Formula: C₂₈H₂₆O₈

Molecular Weight: 490.509

Accurate Mass: 490.16277

Percentage Composition: C 68.56%; H 5.34%; O 26.09%

Melting Point: Mp 185°

Optical Rotation: [α]_D +15.8 (CHCl₃)

>>Derivative: 2-Tosyl

Synonym(s): Methyl 4,6-*O*-benzylidene-2-*O*-tosyl-β-D-glucopyranoside

CAS Registry Number: 14187-68-9

Molecular Formula: C₂₁H₂₄O₈S

Molecular Weight: 436.482

Accurate Mass: 436.11919

Percentage Composition: C 57.79%; H 5.54%; O 29.32%; S 7.35%

Melting Point: Mp 122-123°

Optical Rotation: [α]_D²¹ -54.1 (c, 0.22 in CHCl₃)

>>Derivative: 3-Tosyl

Synonym(s): Methyl 4,6-*O*-benzylidene-3-*O*-tosyl-β-D-glucopyranoside

CAS Registry Number: 14187-69-0