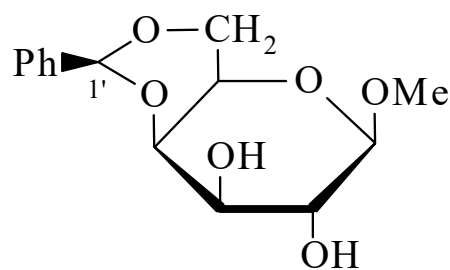




>>Entry Name: Methyl 4,6-*O*-benzylidene- β -D-galactopyranoside, 8Cl

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



CAS Registry Number: 6988-39-2

Molecular Formula: C₁₄H₁₈O₆

Molecular Weight: 282.293

Accurate Mass: 282.11034

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

Melting Point: Mp 198-200°

Optical Rotation: $[\alpha]_D -35.1$ (c, 1.9 in CHCl₃)

Other Data: The stable normal isomer has the (1'*S*)-config. illustrated (as determined for the 2,3-di-Me deriv.). The acid-labile (1'*R*) isomer can be prepared indirectly

>>Derivative: 2-Ac

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

CAS Registry Number: 37180-53-3

Molecular Formula: C₁₆H₂₀O₇

Molecular Weight: 324.33

Accurate Mass: 324.120905

Percentage Composition: C 59.25%; H 6.22%; O 34.53%

Melting Point: Mp 158-160° (194-195°)

Optical Rotation: $[\alpha]_D +82$ (CHCl₃). $[\alpha]_{578} +4$ (c, 1.0 in CHCl₃)

>>Derivative: 3-Ac

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

CAS Registry Number: 37180-54-4

Molecular Formula: C₁₆H₂₀O₇

Molecular Weight: 324.33

Accurate Mass: 324.120905

Percentage Composition: C 59.25%; H 6.22%; O 34.53%

Melting Point: Mp 75-78°

Optical Rotation: $[\alpha]_D +87$ (c, 1.0 in CHCl₃)

>>Derivative: 2,3-Di-Ac

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

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 158-160°

Optical Rotation: $[\alpha]_{578} +82$ (c, 1.0 in CHCl₃)

>>Derivative: 2-Benzoyl

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

CAS Registry Number: 51591-23-2

Molecular Formula: C₂₁H₂₂O₇

Molecular Weight: 386.401

Accurate Mass: 386.136555

Percentage Composition: C 65.28%; H 5.74%; O 28.98%

Melting Point: Mp 250-251° (232-233°)

Optical Rotation: $[\alpha]_D^{23} +43.5$ (c, 1.0 in Py). $[\alpha]_D +28.7$ (c, 0.4 in CHCl₃)