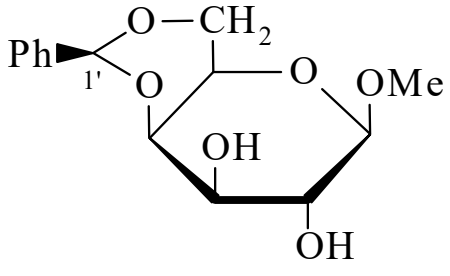
>>**Entry Name: Methyl 4,6-*O*-benzylidene-β-D-galactopyranoside,** 8Cl
Synonym(s): Methyl 4,6-*O*-(phenylmethylene)-β-D-galactopyranoside, 9Cl



CAS Registry Number: 6988-39-2

Molecular Formula: $C_{14}H_{18}O_6$
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 $CHCl_3$)
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: $C_{16}H_{20}O_7$
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 ($CHCl_3$). $[\alpha]_{578}$ +4 (c, 1.0 in $CHCl_3$)

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

CAS Registry Number: 37180-54-4

Molecular Formula: $C_{16}H_{20}O_7$
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 $CHCl_3$)

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

Molecular Formula: $C_{18}H_{22}O_8$
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 $CHCl_3$)

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

CAS Registry Number: 51591-23-2

Molecular Formula: $C_{21}H_{22}O_7$
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 $CHCl_3$)