



Optical Rotation: $[\alpha]_{\text{D}} -83.6$ (MeOH)

>>**Derivative:** Me glycoside, 2,3:5,6-di-*O*-isopropylidene

Synonym(s): Methyl 2,3:5,6-di-*O*-isopropylidene- β -D-gulofuranoside

CAS Registry Number: 55520-69-9

Molecular Formula: C₁₃H₂₂O₆

Molecular Weight: 274.313

Accurate Mass: 274.14164

Percentage Composition: C 56.92%; H 8.08%; O 35.00%

Melting Point: Mp 78.5-79°

Optical Rotation: $[\alpha]_{\text{D}} -44.9$ (CHCl₃)

>>**Variant:** L-form

CAS Registry Number: 6027-89-0

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

Physical Description: Syrup

Optical Rotation: $[\alpha]_{\text{D}}^{23} +20$ (c, 13.6 in H₂O)

Other Data: Freq. isol. as CaCl₂ complex

Sigma: G7128

>>**Derivative:** *N*-Benzyl-*N*-phenylhydrazone

Melting Point: Mp 130-131°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +29$ (MeOH)

>>**Variant:** α -L-Pyranose-form

CAS Registry Number: 39281-66-8

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>**Derivative:** Me glycoside

>>**Variant:** α -L-Furanose-form

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>**Derivative:** 3,5,6-Tribenzyl, 1,2-di-Ac

Synonym(s): 1,2-Di-*O*-Acetyl-3,5,6-tri-*O*-benzyl- α -L-gulofuranose

Molecular Formula: C₃₁H₃₄O₈

Molecular Weight: 534.605

Accurate Mass: 534.22537

Percentage Composition: C 69.65%; H 6.41%; O 23.94%

Optical Rotation: $[\alpha]_{\text{D}} +31.4$ (c, 1.3 in CHCl₃)