



Percentage Composition: C 66.65%; H 6.71%; O 26.64%

Melting Point: Mp 74-76°

Optical Rotation: $[\alpha]_{\text{D}} +5.3$ (c, 2 in CHCl₃)

>>**Derivative:** 2,3,6-Tribenzyl

Synonym(s): 2,3,6-Tri-*O*-benzyl-D-galactose

CAS Registry Number: 55697-59-1

Molecular Formula: C₂₇H₃₀O₆

Molecular Weight: 450.53

Accurate Mass: 450.20424

Percentage Composition: C 71.98%; H 6.71%; O 21.31%

Physical Description: Syrup

Optical Rotation: $[\alpha]_{\text{D}}^{25} +13.5$ (c, 2.7 in CHCl₃)

>>**Derivative:** 2,4,6-Tribenzyl

Synonym(s): 2,4,6-Tri-*O*-benzyl-D-galactose

Molecular Formula: C₂₇H₃₀O₆

Molecular Weight: 450.53

Accurate Mass: 450.20424

Percentage Composition: C 71.98%; H 6.71%; O 21.31%

Melting Point: Mp 123-124°

Optical Rotation: $[\alpha]_{\text{D}}^{22} +40.4 \rightarrow +37.6$ (24 h) (c, 1 in CHCl₃)

>>**Derivative:** Dibenzyl dithioacetal, 4,5-*O*-isopropylidene

Molecular Formula: C₂₃H₃₀O₅S₂

Molecular Weight: 450.619

Accurate Mass: 450.153465

Percentage Composition: C 61.31%; H 6.71%; O 17.75%; S 14.23%

Melting Point: Mp 102.5-103°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +31$ (CHCl₃)

>>**Derivative:** Phenylsazone

see Hexose phenylsazones, [NSK36-T](#)

>>**Variant:** α-D-Pyranose-form

CAS Registry Number: 3646-73-9

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

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

Melting Point: Mp 167°

Optical Rotation: $[\alpha]_{\text{D}}^{22} +150.7 \rightarrow +80.2$ (H₂O)

>>**Derivative:** 1,3,4,6-Tetra-Ac

Synonym(s): 1,3,4,6-Tetra-*O*-acetyl-α-D-galactopyranose

Molecular Formula: C₁₄H₂₀O₁₀

Molecular Weight: 348.306

Accurate Mass: 348.10565

Percentage Composition: C 48.28%; H 5.79%; O 45.93%

Melting Point: Mp 145-147°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +145$ (CHCl₃)