



Melting Point: Mp 109-110°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -57$ (c, 1 in CHCl₃)
Aldrich: 85503-0
Sigma: T6005

>> **Derivative:** 3,4-*O*-Isopropylidene
Synonym(s): 3,4-*O*-Isopropylidene-β-D-ribose

CAS Registry Number: 58645-35-5

Molecular Formula: C₈H₁₄O₅
Molecular Weight: 190.196
Accurate Mass: 190.084125
Percentage Composition: C 50.52%; H 7.42%; O 42.06%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 115-117°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -85 \rightarrow -82$ (c, 1.1 in H₂O)

>> **Derivative:** 3,4-*O*-Isopropylidene, 1,2-di-Ac
Synonym(s): 1,2-Di-*O*-acetyl-3,4-*O*-isopropylidene-β-D-ribose

CAS Registry Number: 58645-38-8

Molecular Formula: C₁₂H₁₈O₇
Molecular Weight: 274.27
Accurate Mass: 274.105255
Percentage Composition: C 52.55%; H 6.61%; O 40.83%
Physical Description: Syrup
Optical Rotation: $[\alpha]_{\text{D}}^{20} -133$ (c, 1.1 in CHCl₃)

>> **Derivative:** Me glycoside

>> **Derivative:** Benzyl glycoside

>> **Variant:** α-D-Furanose-form

CAS Registry Number: 32445-75-3
Molecular Formula: C₅H₁₀O₅
Molecular Weight: 150.131
Accurate Mass: 150.052825
Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>> **Derivative:** 1-Phosphate

CAS Registry Number: 14075-00-4

Molecular Formula: C₅H₁₁O₈P
Molecular Weight: 230.111
Accurate Mass: 230.019157
Percentage Composition: C 26.10%; H 4.82%; O 55.62%; P 13.46%
Physical Description: No phys. props. reported

>> **Derivative:** 5-Phosphate

Extra CAS Registry Numbers(s): 4300-28-1

Molecular Formula: C₅H₁₁O₈P
Molecular Weight: 230.111
Accurate Mass: 230.019157
Percentage Composition: C 26.10%; H 4.82%; O 55.62%; P 13.46%
Use/Importance: Important constit. of nucleic acids