



Molecular Weight: 318.28
Accurate Mass: 318.095085
Percentage Composition: C 49.06%; H 5.70%; O 45.24%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 56-58°. Mp 82-83° (double mp)
Optical Rotation: $[\alpha]_D^{20}$ -12.4 (c, 5 in CHCl₃). $[\alpha]_D^{24}$ -15.4 (c, 7 in MeOH). $[\alpha]_D^{22}$ -13 (c. 1.4 in CHCl₃)
Other Data: Dimorphic

>> **Derivative:** 2,3,5-Tribenzoyl, 1-Ac
Synonym(s): 1-*O*-Acetyl-2,3,5-tribenzoyl-β-D-ribofuranose

CAS Registry Number: 6974-32-9
Extra CAS Registry Numbers(s): 14215-97-5

Molecular Formula: C₂₈H₂₄O₉
Molecular Weight: 504.492
Accurate Mass: 504.142035
Percentage Composition: C 66.66%; H 4.79%; O 28.54%
Physical Description: Cryst. (2-propanol or EtOH)
Melting Point: Mp 131-132°
Optical Rotation: $[\alpha]_D^{20}$ +24.3 (c, 1 in Py). $[\alpha]_D^{20}$ +44.2 (c, 1 in CHCl₃)

>> **Derivative:** 2,3-*O*-Benzylidene (*R*-)
Synonym(s): 2,3-*O*-(*R*)-Benzylidene-β-D-ribofuranose

CAS Registry Number: 39809-35-3

Molecular Formula: C₁₂H₁₄O₅
Molecular Weight: 238.24
Accurate Mass: 238.084125
Percentage Composition: C 60.50%; H 5.92%; O 33.58%
Physical Description: Cryst. (C₆H₆)
Melting Point: Mp 125-126°
Optical Rotation: $[\alpha]_D^{23}$ -27.8 (c, 1.01 in MeOH)

>> **Derivative:** 2,3-*O*-Benzylidene (*S*-)
Synonym(s): 2,3-*O*-(*S*)-Benzylidene-β-D-ribofuranose

CAS Registry Number: 39809-36-4

Molecular Formula: C₁₂H₁₄O₅
Molecular Weight: 238.24
Accurate Mass: 238.084125
Percentage Composition: C 60.50%; H 5.92%; O 33.58%
Physical Description: Needles (EtOAc/petrol)
Melting Point: Mp 107-108°
Optical Rotation: $[\alpha]_D^{23}$ -14 (c, 1.15 in MeOH)

>> **Derivative:** 2,3-*O*-Benzylidene, 1,5-di-Ac (*R*-)
Synonym(s): 1,5-Di-*O*-acetyl-2,3-*O*-(*R*)-benzylidene-β-D-ribofuranose

CAS Registry Number: 39809-37-5

Molecular Formula: C₁₆H₁₈O₇
Molecular Weight: 322.314
Accurate Mass: 322.105255
Percentage Composition: C 59.62%; H 5.63%; O 34.75%
Physical Description: Needles (EtOH)
Melting Point: Mp 78-79°
Optical Rotation: $[\alpha]_D^{23}$ -68.8 (c, 1.82 in CHCl₃)