



Molecular Weight: 624.71
Accurate Mass: 624.079375
Percentage Composition: C 51.91%; H 4.52%; O 28.17%; S 15.40%
Melting Point: Mp 103-104°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -51.1$ (c, 1.3 in CHCl₃)

>>Derivative: 3,4-*O*-Isopropylidene

Synonym(s): 1,6-Anhydro-3,4-*O*-isopropylidene-β-D-galactopyranose

CAS Registry Number: 52579-97-2

Molecular Formula: C₉H₁₄O₅
Molecular Weight: 202.207
Accurate Mass: 202.084125
Percentage Composition: C 53.46%; H 6.98%; O 39.56%
Physical Description: Cryst. (C₆H₆)
Melting Point: Mp 151-152°
Optical Rotation: $[\alpha]_{\text{D}} -73.3$ (CHCl₃)

>>Derivative: 3,4-*O*-Isopropylidene, 2-Ac

Synonym(s): 2-*O*-Acetyl-1,6-anhydro-3,4-*O*-isopropylidene-β-D-galactopyranose

CAS Registry Number: 20787-28-4

Molecular Formula: C₁₁H₁₆O₆
Molecular Weight: 244.244
Accurate Mass: 244.09469
Percentage Composition: C 54.09%; H 6.60%; O 39.30%
Melting Point: Mp 136-137°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -51.4$ (c, 0.9 in CHCl₃)

>>Derivative: 3,4-*O*-Isopropylidene, 2-benzoyl

Synonym(s): 1,6-Anhydro-2-*O*-benzoyl-3,4-*O*-isopropylidene-β-D-galactopyranose

Molecular Formula: C₁₆H₁₈O₆
Molecular Weight: 306.315
Accurate Mass: 306.11034
Percentage Composition: C 62.74%; H 5.92%; O 31.34%
Melting Point: Mp 119-120°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +6.3$ (c, 0.8 in CHCl₃)

>>Derivative: 3,4-*O*-Isopropylidene, 2-tosyl

Synonym(s): 1,6-Anhydro-3,4-*O*-isopropylidene-2-*O*-tosyl-β-D-galactopyranose

Molecular Formula: C₁₆H₂₀O₇S
Molecular Weight: 356.396
Accurate Mass: 356.092975
Percentage Composition: C 53.92%; H 5.66%; O 31.42%; S 9.00%
Melting Point: Mp 118-119°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -63.7$ (c, 0.9 in CHCl₃)

>>Derivative: *exo*-3,4-*O*-Benzylidene

Synonym(s): 1,6-Anhydro-*exo*-3,4-*O*-benzylidene-β-D-galactopyranose

CAS Registry Number: 71021-25-5

Molecular Formula: C₁₃H₁₄O₅
Molecular Weight: 250.251
Accurate Mass: 250.084125
Percentage Composition: C 62.39%; H 5.64%; O 31.97%
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 119-121°
Optical Rotation: $[\alpha]_{\text{D}} -28.5$ (c, 0.6 in CHCl₃)