



>>Derivative: 3-Me

Synonym(s): 1,2-*O*-Isopropylidene-3-*O*-methyl- α -D-ribofuranose

CAS Registry Number: 35506-61-7

Molecular Formula: C₉H₁₆O₅

Molecular Weight: 204.222

Accurate Mass: 204.099775

Percentage Composition: C 52.93%; H 7.90%; O 39.17%

Melting Point: Mp 74-76°

Optical Rotation: $[\alpha]_D +100$ (CHCl₃)

>>Derivative: 3-Me, 5-benzoyl

Synonym(s): 5-*O*-Benzoyl-1,2-*O*-isopropylidene-3-*O*-methyl- α -D-ribofuranose

CAS Registry Number: 10300-20-6

Molecular Formula: C₁₆H₂₀O₆

Molecular Weight: 308.33

Accurate Mass: 308.12599

Percentage Composition: C 62.33%; H 6.54%; O 31.13%

Melting Point: Mp 74-76°

Optical Rotation: $[\alpha]_D +75.2$ (CHCl₃)

>>Derivative: 3-Me, 5-tosyl

Synonym(s): 1,2-*O*-Isopropylidene-3-*O*-methyl-5-*O*-tosyl- α -D-ribofuranose

CAS Registry Number: 35506-62-8

Molecular Formula: C₁₆H₂₂O₇S

Molecular Weight: 358.412

Accurate Mass: 358.108625

Percentage Composition: C 53.62%; H 6.19%; O 31.25%; S 8.95%

Melting Point: Mp 108-109°

Optical Rotation: $[\alpha]_D +60$ (CHCl₃)

>>Derivative: 5-Benzyl

Synonym(s): 5-*O*-Benzyl-1,2-*O*-isopropylidene- α -D-ribofuranose

CAS Registry Number: 23202-83-7

Molecular Formula: C₁₅H₂₀O₅

Molecular Weight: 280.32

Accurate Mass: 280.131075

Percentage Composition: C 64.27%; H 7.19%; O 28.54%

Melting Point: Mp 80-81°

Optical Rotation: $[\alpha]_D +42$ (CHCl₃)

>>Derivative: 3,5-Dibenzyl

Synonym(s): 3,5-Di-*O*-benzyl-1,2-*O*-isopropylidene- α -D-ribofuranose

CAS Registry Number: 55735-86-9

Molecular Formula: C₂₂H₂₆O₅

Molecular Weight: 370.444

Accurate Mass: 370.178025

Percentage Composition: C 71.33%; H 7.07%; O 21.59%

Boiling Point: Bp_{0.02} 178-182°

>>Derivative: 5-Trityl

Synonym(s): 1,2-*O*-Isopropylidene-5-*O*-trityl- α -D-ribofuranose

CAS Registry Number: 20590-57-2