



>>Derivative: 3-Me, 5,6-*O*-isopropylidene

Synonym(s): 1,2:5,6-Di-*O*-isopropylidene-3-*O*-methyl- α -D-allofuranose

CAS Registry Number: 18968-49-5

Molecular Formula: C₁₃H₂₂O₆

Molecular Weight: 274.313

Accurate Mass: 274.14164

Percentage Composition: C 56.92%; H 8.08%; O 35.00%

Boiling Point: Bp_{0.01} 120-125°

Optical Rotation: $[\alpha]_D^{20}$ +90 (c, 1.4 in CHCl₃)

>>Derivative: 3,5,6-Tri-Me

Synonym(s): 1,2-*O*-Isopropylidene-3,5,6-tri-*O*-methyl- α -D-allofuranose

CAS Registry Number: 57099-07-7

Molecular Formula: C₁₂H₂₂O₆

Molecular Weight: 262.302

Accurate Mass: 262.14164

Percentage Composition: C 54.95%; H 8.45%; O 36.60%

Physical Description: Syrup

Boiling Point: Bp₁₂ 172°

>>Derivative: 3-Benzyl

Synonym(s): 3-*O*-Benzyl-1,2-*O*-isopropylidene- α -D-allofuranose

CAS Registry Number: 57099-04-4

Molecular Formula: C₁₆H₂₂O₆

Molecular Weight: 310.346

Accurate Mass: 310.14164

Percentage Composition: C 61.92%; H 7.14%; O 30.93%

Optical Rotation: $[\alpha]_D$ +103 (c, 0.6 in MeOH)

>>Derivative: 3-Benzyl, 5,6-dimesyl

Synonym(s): 3-*O*-Benzyl-1,2-*O*-isopropylidene-5,6-di-*O*-mesyl- α -D-allofuranose

Molecular Formula: C₁₈H₂₆O₁₀S₂

Molecular Weight: 466.529

Accurate Mass: 466.09674

Percentage Composition: C 46.34%; H 5.62%; O 34.29%; S 13.75%

Melting Point: Mp 107-108°

Optical Rotation: $[\alpha]_D$ +78 (c, 0.8 in CHCl₃)

>>Derivative: 3-Benzyl, 5,6-di-Ac

Synonym(s): 5,6-Di-*O*-acetyl-3-*O*-benzyl-1,2-*O*-isopropylidene- α -D-allofuranose

CAS Registry Number: 30788-69-3

Molecular Formula: C₂₀H₂₆O₈

Molecular Weight: 394.421

Accurate Mass: 394.16277

Percentage Composition: C 60.90%; H 6.64%; O 32.45%

Melting Point: Mp 66.5-67°

Optical Rotation: $[\alpha]_D^{20}$ +98 (c, 2.0 in CHCl₃)

>>Derivative: 3-Benzyl, 5,6-*O*-isopropylidene

Synonym(s): 3-*O*-Benzyl-1,2:5,6-di-*O*-isopropylidene- α -D-allofuranose

CAS Registry Number: 22331-21-1