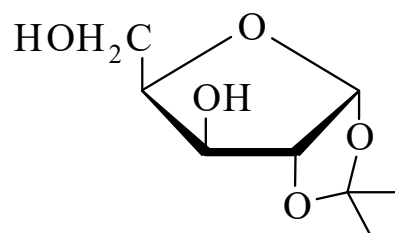




>>Entry Name: 1,2-*O*-Isopropylidenexylose, 9CI, 8CI



CAS Registry Number: 20031-21-4

Molecular Formula: C₈H₁₄O₅

Molecular Weight: 190.196

Accurate Mass: 190.084125

Percentage Composition: C 50.52%; H 7.42%; O 42.06%

Aldrich: 29636-8

Fluka: 59545

Sigma: I0881

>>Variant: α -D-Furanose-form

Molecular Formula: C₈H₁₄O₅

Molecular Weight: 190.196

Accurate Mass: 190.084125

Percentage Composition: C 50.52%; H 7.42%; O 42.06%

Physical Description: Syrup or cryst. (EtOAc/petrol)

Melting Point: Mp 42-43°

Boiling Point: Bp_{0.06} 112-114°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -21.1$ (c, 2.0 in H₂O)

>>Derivative: 5-Ac

Synonym(s): 5-*O*-Acetyl-1,2-*O*-isopropylidene- α -D-xylofuranose

Molecular Formula: C₁₀H₁₆O₆

Molecular Weight: 232.233

Accurate Mass: 232.09469

Percentage Composition: C 51.72%; H 6.94%; O 41.34%

Melting Point: Mp 101°

Optical Rotation: $[\alpha]_{\text{D}}^{22} +23$ (c, 1.0 in CHCl₃)

>>Derivative: 3,5-Di-Ac

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

CAS Registry Number: 42927-45-7

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: $[\alpha]_{\text{D}}^{20} -6.1$ (CHCl₃)

>>Derivative: 5-Benzoyl

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

Molecular Formula: C₁₅H₁₈O₆

Molecular Weight: 294.304

Accurate Mass: 294.11034

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 83-85°

>>Derivative: 3,5-Dibenzoyl

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