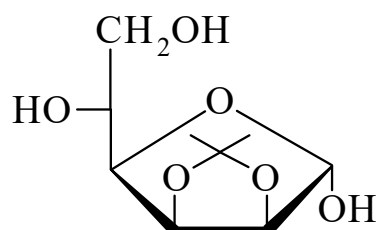




>>Entry Name: 2,3-*O*-Isopropylidenemannose



α -D-Furanose-*form*

Related CAS Registry Numbers(s): 27954-10-5 29847-39-0

Molecular Formula: C₉H₁₆O₆

Molecular Weight: 220.222

Accurate Mass: 220.09469

Percentage Composition: C 49.09%; H 7.32%; O 43.59%

>>Variant: α -D-Furanose-form

Molecular Formula: C₉H₁₆O₆

Molecular Weight: 220.222

Accurate Mass: 220.09469

Percentage Composition: C 49.09%; H 7.32%; O 43.59%

>>Derivative: 1-Benzoyl

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

CAS Registry Number: 57492-90-7

Molecular Formula: C₁₆H₂₀O₇

Molecular Weight: 324.33

Accurate Mass: 324.120905

Percentage Composition: C 59.25%; H 6.22%; O 34.53%

Physical Description: Glass

Optical Rotation: [α]_D²⁰+52.5 (c, 1.7 in EtOH)

>>Derivative: 1,6-Dimesyl

Synonym(s): 2,3-*O*-Isopropylidene-1,6-di-*O*-mesyl- α -D-mannofuranose

Molecular Formula: C₁₁H₂₀O₁₀S₂

Molecular Weight: 376.405

Accurate Mass: 376.04979

Percentage Composition: C 35.10%; H 5.36%; O 42.51%; S 17.04%

Physical Description: Needles

Melting Point: Mp 147-148°

Optical Rotation: [α]_D²⁵+33.5 (c, 1.39 in CHCl₃)

>>Derivative: 5,6-Dimesyl

Synonym(s): 2,3-*O*-Isopropylidene-5,6-di-*O*-mesyl- α -D-mannofuranose

Molecular Formula: C₁₁H₂₀O₁₀S₂

Molecular Weight: 376.405

Accurate Mass: 376.04979

Percentage Composition: C 35.10%; H 5.36%; O 42.51%; S 17.04%

Physical Description: Cryst. (EtOAc/petrol)

Melting Point: Mp 142-143°

Optical Rotation: [α]_D-10 (c, 1 in CHCl₃)

>>Derivative: 5,6-Isopropylidene

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

CAS Registry Number: 14131-84-1

Molecular Formula: C₁₂H₂₀O₆

Molecular Weight: 260.286

Accurate Mass: 260.12599

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Melting Point: Mp 121-122°