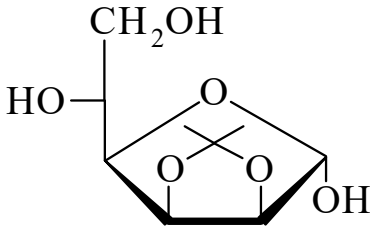
>>**Entry Name: 2,3-*O*-Isopropylidenemannose**



a-D-Furanose-*form*

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

Molecular Formula: $C_9H_{16}O_6$
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: $C_9H_{16}O_6$
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: $C_{16}H_{20}O_7$
Molecular Weight: 324.33
Accurate Mass: 324.120905
Percentage Composition: C 59.25%; H 6.22%; O 34.53%
Physical Description: Glass
Optical Rotation: $[\alpha]_D^{20}$+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: $C_{11}H_{20}O_{10}S_2$
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: $[\alpha]_D^{25}$+33.5 (c, 1.39 in $CHCl_3$)

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

Molecular Formula: $C_{11}H_{20}O_{10}S_2$
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: $[\alpha]_D$ –10 (c, 1 in $CHCl_3$)

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

CAS Registry Number: 14131-84-1

Molecular Formula: $C_{12}H_{20}O_6$
Molecular Weight: 260.286
Accurate Mass: 260.12599
Percentage Composition: C 55.37%; H 7.74%; O 36.88%
Melting Point: Mp 121-122°