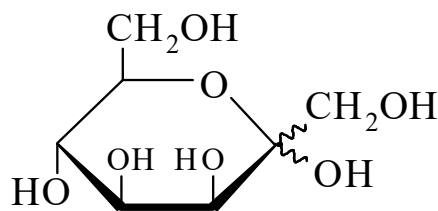




>>Entry Name: *manno-2-Heptulose*, 9CI

Synonym(s): Mannoheptulose. Mannoketoheptose



CAS Registry Number: 654-29-5

Molecular Formula: $C_7H_{14}O_7$

Molecular Weight: 210.183

Accurate Mass: 210.073955

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>Variant: D-form

CAS Registry Number: 3615-44-9

Molecular Formula: $C_7H_{14}O_7$

Molecular Weight: 210.183

Accurate Mass: 210.073955

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

Biological Source: Occurs in *Persea gratissima* and *Medicago sativa*

Melting Point: Mp 151-152°

Optical Rotation: $[\alpha]_D^{20} +29.7$ (c, 4 in H_2O)

Fluka: 63571

Sigma: M4375

>>Derivative: Phenyllosazone

Melting Point: Mp 200°

>>Derivative: Hexa-Ac

Molecular Formula: $C_{19}H_{26}O_{13}$

Molecular Weight: 462.407

Accurate Mass: 462.137345

Percentage Composition: C 49.35%; H 5.67%; O 44.98%

Physical Description: Prisms (Et_2O)

Melting Point: Mp 110°

Optical Rotation: $[\alpha]_D^{20} +39$ (c, 2 in $CHCl_3$)

>>Derivative: 5,6-*O*-Ethylidene

Synonym(s): 5,6-*O*-Ethylidene-D-*manno-2*-heptulose

Molecular Formula: $C_9H_{16}O_7$

Molecular Weight: 236.221

Accurate Mass: 236.089605

Percentage Composition: C 45.76%; H 6.83%; O 47.41%

Melting Point: Mp 201°

Optical Rotation: $[\alpha]_D^{20} +4.4$ (c, 3 in H_2O)

>>Derivative: 1-Deoxy

CAS Registry Number: 35016-85-4

Molecular Formula: $C_7H_{14}O_6$

Molecular Weight: 194.184

Accurate Mass: 194.07904

Percentage Composition: C 43.30%; H 7.27%; O 49.44%

Physical Description: Cryst. ($EtOH$ /petrol)

Melting Point: Mp 110-112°

Optical Rotation: $[\alpha]_D^{25} +27.1$ (c, 2 in H_2O)