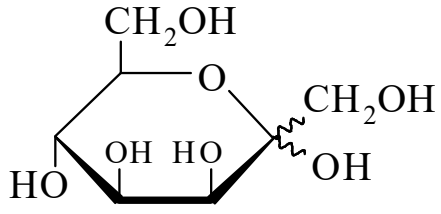
>>**Entry Name:** ***manno*-2-Heptulose,** 9CI
Synonym(s): Mannoheptulose. Mannoketoheptose



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:** Phenylosazone

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)