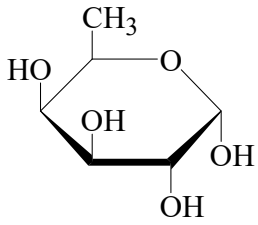
>>**Entry Name: Fucose**
Synonym(s): 6-Deoxygalactose. Rhodeose. Galactomethylose



α-D-Pyranose-*form*

Related CAS Registry Numbers(s): 3713-31-3

Molecular Formula: $C_6H_{12}O_5$
Molecular Weight: 164.158
Accurate Mass: 164.068475
Percentage Composition: C 43.90%; H 7.37%; O 48.73%
General Statement: An aq. soln. at 31°C contains 28% α-pyr, 67% β-pyr, =5% fur and 0.01% aldehyde

>>**Variant:** D-form

CAS Registry Number: 3615-37-0

Molecular Formula: $C_6H_{12}O_5$
Molecular Weight: 164.158
Accurate Mass: 164.068475
Percentage Composition: C 43.90%; H 7.37%; O 48.73%
Biological Source: Obtained from glycosides found in various spp. of Convolvulaceae
Melting Point: Mp 140-143°
Optical Rotation: $[\alpha]_D^{22}$+89 → +75.7 (H_2O)
Aldrich: 85028-4
Fluka: 47880
Sigma: F8150

>>**Derivative:** Osazone

Melting Point: Mp 174-175°

>>**Derivative:** 2-Me
Synonym(s): 2-*O*-Methyl-D-fucose

CAS Registry Number: 56192-98-4

Molecular Formula: $C_7H_{14}O_5$
Molecular Weight: 178.185
Accurate Mass: 178.084125
Percentage Composition: C 47.19%; H 7.92%; O 44.90%
Melting Point: Mp 150-153°
Optical Rotation: $[\alpha]_D^{25}$+79 (c, 1 in H_2O)

>>**Derivative:** 3-Me
see 6-Deoxy-3-*O*-methylgalactose, BVT70-L

>>**Derivative:** 4-Me
Synonym(s): 4-*O*-Methyl-D-fucose. Curacose

CAS Registry Number: 10592-43-5

Molecular Formula: $C_7H_{14}O_5$
Molecular Weight: 178.185
Accurate Mass: 178.084125
Percentage Composition: C 47.19%; H 7.92%; O 44.90%
Source/Synthesis: Hydrol. prod. of Curamycin A CKC95-B, Everninomicin B CJQ21-N and Flambamycin CJQ88-M
Physical Description: Prisms (EtOAc)
Melting Point: Mp 131-132°
Optical Rotation: $[\alpha]_D^{24}$+80.6 (c, 0.92 in H_2O)