CAS Registry Number: 42822-30-0

Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{23}$ –76 (c, 1.12 in H_2O)

>>**Derivative:** 2,4-Di-Me
Synonym(s): 2,4-Di-*O*-methyl-L-fucose

CAS Registry Number: 93132-55-9

Molecular Formula: $C_8H_{16}O_5$
Molecular Weight: 192.211
Accurate Mass: 192.099775
Percentage Composition: C 49.99%; H 8.39%; O 41.62%
Melting Point: Mp 131-132°
Optical Rotation: $[\alpha]_D$ –85 (H_2O)

>>**Derivative:** 2,3-Dibenzyl
Synonym(s): 2,3-Di-*O*-benzyl-L-fucose

CAS Registry Number: 42822-45-7

Molecular Formula: $C_{20}H_{24}O_5$
Molecular Weight: 344.407
Accurate Mass: 344.162375
Percentage Composition: C 69.75%; H 7.02%; O 23.23%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{23}$ +12 (c, 1.86 in $CHCl_3$)

>>**Derivative:** 3,4-Dibenzyl
Synonym(s): 3,4-Di-*O*-benzyl-L-fucose

CAS Registry Number: 42822-39-9

Molecular Formula: $C_{20}H_{24}O_5$
Molecular Weight: 344.407
Accurate Mass: 344.162375
Percentage Composition: C 69.75%; H 7.02%; O 23.23%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{25}$ –72 (c, 1.41 in $CHCl_3$)

>>**Derivative:** 2,3,4-Tribenzyl
Synonym(s): 2,3,4-Tri-*O*-benzyl-L-fucose

CAS Registry Number: 60431-34-7

Molecular Formula: $C_{27}H_{30}O_5$
Molecular Weight: 434.531
Accurate Mass: 434.209325
Percentage Composition: C 74.63%; H 6.96%; O 18.41%
Melting Point: Mp 87-89°
Optical Rotation: $[\alpha]_D^{24}$ –29.7 (c, 1.7 in $CHCl_3$)
Sigma: T0924

>>**Variant:** α-L-Pyranose-form

CAS Registry Number: 51348-50-6
Extra CAS Registry Numbers(s): 6696-41-9
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%
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 143-144°