



Molecular Formula: C₁₃H₂₀O₈
Molecular Weight: 304.296
Accurate Mass: 304.11582
Percentage Composition: C 51.31%; H 6.62%; O 42.06%
Optical Rotation: $[\alpha]_{\text{D}}^{19} -61.8$ (c, 1.3 in MeOH)

>>Derivative: Me glycoside, 2,3,5-tri-Me
Synonym(s): Methyl 2,3,5-tri-*O*-methyl-β-D-fucofuranoside

CAS Registry Number: 102935-40-0

Molecular Formula: C₁₀H₂₀O₅
Molecular Weight: 220.265
Accurate Mass: 220.131075
Percentage Composition: C 54.53%; H 9.15%; O 36.32%
Physical Description: Oil
Boiling Point: Bp₁ 75-77°
Optical Rotation: $[\alpha]_{\text{D}}^{30} -111.4$ (c, 0.6 in CHCl₃)

>>Derivative: Me glycoside, 2,3,5-tribenzyl
Synonym(s): Methyl 2,3,5-tri-*O*-benzyl-β-D-fucofuranoside

CAS Registry Number: 102935-31-9

Molecular Formula: C₂₈H₃₂O₅
Molecular Weight: 448.558
Accurate Mass: 448.224975
Percentage Composition: C 74.98%; H 7.19%; O 17.83%
Physical Description: Syrup
Optical Rotation: $[\alpha]_{\text{D}}^{15} -63.8$ (c, 1.8 in MeOH)

>>Variant: L-form

CAS Registry Number: 2438-80-4

Molecular Formula: C₆H₁₂O₅
Molecular Weight: 164.158
Accurate Mass: 164.068475
Percentage Composition: C 43.90%; H 7.37%; O 48.73%
Biological Source: A constit. of the polysaccharides obt. from eggs of sea urchin, frog spawn, gum tragacanth and marine algae. Also found in glycoproteins obt. from mucins, blood group substances and milk
Physical Description: Prisms (EtOH)
Melting Point: Mp 145° (140-141°)
Optical Rotation: $[\alpha]_{\text{D}}^{17} -124 \rightarrow -76$ (c, 2.0 in H₂O)

>>Derivative: Methylphenylhydrazone

Melting Point: Mp 180-182°
Optical Rotation: $[\alpha]_{\text{D}}^{23} +6$ (c, 5.0 in Py)

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

CAS Registry Number: 34299-00-8

Molecular Formula: C₇H₁₄O₅
Molecular Weight: 178.185
Accurate Mass: 178.084125
Percentage Composition: C 47.19%; H 7.92%; O 44.90%
Biological Source: Present in plant polysaccharides, e.g. of *Prunus domestica*
Melting Point: Mp 150-152°
Optical Rotation: $[\alpha]_{\text{D}}^{23} -88$ (c, 1.02 in H₂O)

>>Derivative: 3-Me
see 6-Deoxy-3-*O*-methylgalactose, [BVT70-L](#)