



CAS Registry Number: 42822-29-7

Molecular Formula: C₁₂H₂₀O₇

Molecular Weight: 276.286

Accurate Mass: 276.120905

Percentage Composition: C 52.17%; H 7.30%; O 40.54%

Physical Description: Needles (Et₂O)

Melting Point: Mp 93-95°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -138$ (c, 1 in CHCl₃)

>>**Derivative:** 3,4-Di-Me

Synonym(s): Methyl 3,4-di-*O*-methyl- α -L-fucopyranoside

Molecular Formula: C₉H₁₈O₅

Molecular Weight: 206.238

Accurate Mass: 206.115425

Percentage Composition: C 52.41%; H 8.80%; O 38.79%

Physical Description: Cryst. (petrol)

Melting Point: Mp 100°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -213$ (c, 1.3 in H₂O)

>>**Derivative:** 3,4-Dibenzyl, 2-Me

Synonym(s): Methyl 3,4-di-*O*-benzyl-2-*O*-methyl- α -L-fucopyranoside

Molecular Formula: C₂₂H₂₈O₅

Molecular Weight: 372.46

Accurate Mass: 372.193675

Percentage Composition: C 70.95%; H 7.58%; O 21.48%

Physical Description: Syrup

Optical Rotation: $[\alpha]_{\text{D}}^{24} -21.5$ (c, 1.05 in CHCl₃)

>>**Variant:** β -L-form

CAS Registry Number: 24332-98-7

Molecular Formula: C₇H₁₄O₅

Molecular Weight: 178.185

Accurate Mass: 178.084125

Percentage Composition: C 47.19%; H 7.92%; O 44.90%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 126-127°

Optical Rotation: $[\alpha]_{\text{D}} +10.5$ (c, 1 in H₂O)

Sigma: M0390

>>**Derivative:** 2,3,4-Tri-Ac

Synonym(s): Methyl 2,3,4-tri-*O*-acetyl- β -L-fucopyranoside

Molecular Formula: C₁₃H₂₀O₈

Molecular Weight: 304.296

Accurate Mass: 304.11582

Percentage Composition: C 51.31%; H 6.62%; O 42.06%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 99-100°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +8$ (c, 1 in CHCl₃)

>>**Derivative:** 3-Me

Synonym(s): Methyl 3-*O*-methyl- β -L-fucopyranoside

Molecular Formula: C₈H₁₆O₅

Molecular Weight: 192.211

Accurate Mass: 192.099775

Percentage Composition: C 49.99%; H 8.39%; O 41.62%

Melting Point: Mp 104-105°

Optical Rotation: $[\alpha]_{\text{D}} -12.4$ (c, 0.6 in MeOH)