



Optical Rotation: $[\alpha]_D +47.6$ (H₂O)

>>Derivative: 2,4-Di-Me

Synonym(s): 6-Deoxy-2,4-di-*O*-methyl-L-mannose. 2,4-Di-*O*-methyl-L-rhamnose

Molecular Formula: C₈H₁₆O₅

Molecular Weight: 192.211

Accurate Mass: 192.099775

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

Biological Source: Hydrol. prod. of *Pneumococcus* and other bacterial polysaccharides and of flax hemicellulose

Melting Point: Mp 91-93°

Optical Rotation: $[\alpha]_D +10.6$ (H₂O)

>>Derivative: 3,4-Di-Me

Synonym(s): 6-Deoxy-3,4-di-*O*-methyl-L-mannose, 9Cl. 3,4-Di-*O*-methyl-L-rhamnose

CAS Registry Number: 4060-11-1

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 98-99°

Optical Rotation: $[\alpha]_D +24 \rightarrow +18.5$ (H₂O)

>>Derivative: 2,3,4-Tri-Me

Synonym(s): 6-Deoxy-2,3,4-tri-*O*-methyl-L-mannose, 9Cl. 2,3,4-Tri-*O*-methyl-L-rhamnose

CAS Registry Number: 7439-05-6

Molecular Formula: C₉H₁₈O₅

Molecular Weight: 206.238

Accurate Mass: 206.115425

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

Physical Description: Syrup

Optical Rotation: $[\alpha]_D +26$ (H₂O)

>>Variant: α-L-form

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

Physical Description: Rods + 1H₂O (H₂O or EtOH)

Melting Point: Mp 93-94°

Other Data: On heating loses H₂O of cryst. and partly changes to the β-form. V. sweet taste

>>Variant: α-L-Pyranose-form

CAS Registry Number: 6014-42-2

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

>>Derivative: 1,2,4-Tri-Ac

Synonym(s): 1,2,4-Tri-*O*-acetyl-6-deoxy-α-L-mannopyranose. 1,2,4-Tri-*O*-acetyl-α-L-rhamnopyranose

Molecular Formula: C₁₂H₁₈O₈

Molecular Weight: 290.269

Accurate Mass: 290.10017

Percentage Composition: C 49.65%; H 6.25%; O 44.10%

Physical Description: Fine needles

Melting Point: Mp 145-149°

Optical Rotation: $[\alpha]_D -41$ (c, 1.1 in CHCl₃)