



Molecular Formula: C₆H₁₂O₆
Molecular Weight: 180.157
Accurate Mass: 180.06339
Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>**Derivative:** 1,4-Lactone
Synonym(s): 3-Deoxy-L-*arabino*-hexono-1,4-lactone

CAS Registry Number: 134524-29-1

Molecular Formula: C₆H₁₀O₅
Molecular Weight: 162.142
Accurate Mass: 162.052825
Percentage Composition: C 44.45%; H 6.22%; O 49.34%
Physical Description: Syrup
Optical Rotation: [α]_D +4 (c, 1.2 in H₂O)

>>**Variant:** (2*R*,4*S*,5*R*)-form
Synonym(s): D-*ribo*-form. α-D-Glucometasaccharinic acid. Glucometasaccharin. Metasaccharin

CAS Registry Number: 498-43-1
Extra CAS Registry Numbers(s): 104760-52-3

Molecular Formula: C₆H₁₂O₆
Molecular Weight: 180.157
Accurate Mass: 180.06339
Percentage Composition: C 40.00%; H 6.71%; O 53.28%
Source/Synthesis: Alkaline degradation product of Laminarin [BTV22-U](#)
Optical Rotation: [α]_D²⁰ -5 (H₂O) (as Ca salt)

>>**Derivative:** Phenylhydrazide

Melting Point: Mp 108-109°
Optical Rotation: [α]_D²⁰ 0 (c, 0.94 in MeOH)

>>**Derivative:** 1,4-Lactone
Synonym(s): 3-Deoxy-D-*ribo*-hexono-1,4-lactone

CAS Registry Number: 499-87-6

Molecular Formula: C₆H₁₀O₅
Molecular Weight: 162.142
Accurate Mass: 162.052825
Percentage Composition: C 44.45%; H 6.22%; O 49.34%
Melting Point: Mp 108-109°
Optical Rotation: [α]_D +26.2 (c, 1.0 in H₂O)

>>**Derivative:** 1,4-Lactone, tri-Ac
Synonym(s): 2,5,6-Tri-*O*-acetyl-3-deoxy-D-*ribo*-hexono-1,4-lactone

CAS Registry Number: 72599-55-4

Molecular Formula: C₁₂H₁₆O₈
Molecular Weight: 288.254
Accurate Mass: 288.08452
Percentage Composition: C 50.00%; H 5.59%; O 44.40%
Physical Description: Oil
Optical Rotation: [α]_D²⁰ +14 (c, 1.0 in CHCl₃)