



CAS Registry Number: 23843-32-5

Molecular Formula: C₉H₁₄O₆

Molecular Weight: 218.206

Accurate Mass: 218.07904

Percentage Composition: C 49.54%; H 6.47%; O 43.99%

Physical Description: Needles (EtOAc)

Melting Point: Mp 142-143.5°

Optical Rotation: $[\alpha]_{\text{D}}^{24} -74.5$ (c, 2.75 in Me₂CO)

>>**Derivative:** 1,4-Lactone, 2,3:5,6-di-*O*-isopropylidene

Synonym(s): 2,3:5,6-Di-*O*-isopropylidene-D-gulono-1,4-lactone

CAS Registry Number: 67642-42-6

Molecular Formula: C₁₂H₁₈O₆

Molecular Weight: 258.271

Accurate Mass: 258.11034

Percentage Composition: C 55.81%; H 7.02%; O 37.17%

Melting Point: Mp 150-151°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -67.8$ (c, 4.16 in CHCl₃)

>>**Variant:** L-form

CAS Registry Number: 526-97-6

Molecular Formula: C₆H₁₂O₇

Molecular Weight: 196.157

Accurate Mass: 196.058305

Percentage Composition: C 36.74%; H 6.17%; O 57.10%

>>**Derivative:** Phenylhydrazide

Melting Point: Mp 147-148° (dec. at 195°)

>>**Derivative:** 3,4:5,6-Di-*O*-benzylidene, Et ester

Synonym(s): Ethyl 3,4:5,6-di-*O*-benzylidene-L-gluconate

CAS Registry Number: 70373-43-2

Molecular Formula: C₂₂H₂₄O₇

Molecular Weight: 400.427

Accurate Mass: 400.152205

Percentage Composition: C 65.99%; H 6.04%; O 27.97%

Melting Point: Mp 203-204°

>>**Derivative:** 1,4-Lactone

Synonym(s): L-Gulono-1,4-lactone

CAS Registry Number: 1128-23-0

Molecular Formula: C₆H₁₀O₆

Molecular Weight: 178.141

Accurate Mass: 178.04774

Percentage Composition: C 40.45%; H 5.66%; O 53.89%

Physical Description: Cryst. (MeOH/EtOAc)

Melting Point: Mp 182-183.5°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +55.3$ (H₂O)

Aldrich: 31030-1

Fluka: 51195

Sigma: G8768