



Accurate Mass: 322.105255
Percentage Composition: C 59.62%; H 5.63%; O 34.75%
Melting Point: Mp 170°
Optical Rotation: $[\alpha]_D^{20} +30.3$ (Me₂CO)

>>**Derivative:** 1,2-*O*-Isopropylidene, 3,5-*O*-benzylidene, benzyl ester
Synonym(s): Benzyl 3,5-*O*-benzylidene-1,2-*O*-isopropylidene- α -D-gluconate

Molecular Formula: C₂₃H₂₄O₇
Molecular Weight: 412.438
Accurate Mass: 412.152205
Percentage Composition: C 66.98%; H 5.87%; O 27.15%
Physical Description: Cryst. (cyclohexane)
Melting Point: Mp 138-139°
Optical Rotation: $[\alpha]_D^{20} +16.8$ (c, 2 in CHCl₃)

>>**Derivative:** Me glycoside

>>**Variant:** β -D-Pyranose-form
Synonym(s): β -D-Glucopyranuronic acid

Molecular Formula: C₆H₁₀O₇
Molecular Weight: 194.141
Accurate Mass: 194.042655
Percentage Composition: C 37.12%; H 5.19%; O 57.69%

>>**Derivative:** Tetra-Ac, Me ester
Synonym(s): Methyl 1,2,3,4-tetra-*O*-acetyl- β -D-glucopyranuronate

CAS Registry Number: 7355-18-2

Molecular Formula: C₁₅H₂₀O₁₁
Molecular Weight: 376.316
Accurate Mass: 376.100565
Percentage Composition: C 47.88%; H 5.36%; O 46.77%
Melting Point: Mp 178°
Optical Rotation: $[\alpha]_D^{24} +8.7$ (CHCl₃)
Sigma: M5890

>>**Derivative:** Me glycoside

>>**Derivative:** Benzyl glycoside

>>**Variant:** α -D-Furanose-form
Synonym(s): α -D-Glucofuranuronic acid

Molecular Formula: C₆H₁₀O₇
Molecular Weight: 194.141
Accurate Mass: 194.042655
Percentage Composition: C 37.12%; H 5.19%; O 57.69%

>>**Derivative:** 1,2-*O*-Isopropylidene
Synonym(s): 1,2-*O*-Isopropylidene- α -D-glucofuranuronic acid

Molecular Formula: C₉H₁₄O₇
Molecular Weight: 234.205
Accurate Mass: 234.073955
Percentage Composition: C 46.16%; H 6.02%; O 47.82%
Melting Point: Mp 145-146° (140-142°)