



Synonym(s): Methyl α -D-*ribo*-hexopyranos-3-uloside

Molecular Formula: C₇H₁₂O₆

Molecular Weight: 192.168

Accurate Mass: 192.06339

Percentage Composition: C 43.75%; H 6.29%; O 49.95%

Physical Description: Cryst. (butanone)

Melting Point: Mp 91-92°

Optical Rotation: $[\alpha]_D^{25} +155$ (c, 2.6 in H₂O)

>>**Derivative:** Me glycoside, 4-benzoyl, 2-Ac

Synonym(s): Methyl 2-*O*-acetyl-4-*O*-benzoyl- α -D-*ribo*-hexopyranosid-3-ulose

Molecular Formula: C₁₆H₁₈O₈

Molecular Weight: 338.313

Accurate Mass: 338.10017

Percentage Composition: C 56.80%; H 5.36%; O 37.83%

Physical Description: Needles (CHCl₃/petrol)

Melting Point: Mp 151-153°

>>**Derivative:** Me glycoside, 4,6-*O*-benzylidene

>>**Variant:** α -D-Furanose-form

Molecular Formula: C₆H₁₀O₆

Molecular Weight: 178.141

Accurate Mass: 178.04774

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

>>**Derivative:** 1,2-*O*-Isopropylidene

Synonym(s): 1,2-*O*-Isopropylidene- α -D-*ribo*-hexofuranos-3-ulose

Molecular Formula: C₉H₁₄O₆

Molecular Weight: 218.206

Accurate Mass: 218.07904

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

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 80-81°

Optical Rotation: $[\alpha]_D +29.9 \rightarrow +36.7$ (H₂O)

>>**Derivative:** 1,2:5,6-Di-*O*-isopropylidene

Synonym(s): 1,2:5,6-Di-*O*-isopropylidene- α -D-*ribo*-hexofuranos-3-ulose

CAS Registry Number: 2847-00-9

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 39-40°

Boiling Point: Bp_{0.01} 97°. Bp_{0.01} 97°

Optical Rotation: $[\alpha]_D +107$ (CHCl₃)

Sigma: D2901

>>**Derivative:** 1,2:5,6-Di-*O*-isopropylidene, covalent hydrate

CAS Registry Number: 10578-85-5

Molecular Formula: C₁₂H₂₀O₇

Molecular Weight: 276.286

Accurate Mass: 276.120905

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

Melting Point: Mp 112-114°

Optical Rotation: $[\alpha]_D +44.5$ (H₂O)

Aldrich: 30862-5