



Melting Point: Mp 118-119°

Optical Rotation: $[\alpha]_D^{20} +171$ (c, 0.54 in CHCl₃)

>>**Variant:** β-D-Pyranose-form

CAS Registry Number: 14131-68-1

Molecular Formula: C₈H₁₅NO₆

Molecular Weight: 221.21

Accurate Mass: 221.089939

Percentage Composition: C 43.44%; H 6.83%; N 6.33%; O 43.40%

Melting Point: Mp 182-184°

Optical Rotation: $[\alpha]_D -21.5 \rightarrow +40.4$ (H₂O)

>>**Derivative:** 1,3,4,6-Tetra-Ac

Synonym(s): 2-Acetamido-1,3,4,6-tetra-*O*-acetyl-2-deoxy-β-D-glucopyranose. *N*,1,3,4,6-Pentaacetylglucosamine

CAS Registry Number: 7772-79-4

Molecular Formula: C₁₆H₂₃NO₁₀

Molecular Weight: 389.358

Accurate Mass: 389.132199

Percentage Composition: C 49.36%; H 5.95%; N 3.60%; O 41.09%

Melting Point: Mp 186-189°

Optical Rotation: $[\alpha]_D^{24} +3.9$ (c, 10 in CHCl₃)

Aldrich: 85999-0

Sigma: A6754

>>**Derivative:** 1-Benzoyl

Synonym(s): 2-Acetamido-1-*O*-benzoyl-2-deoxy-β-D-glucopyranose

CAS Registry Number: 4171-78-2

Molecular Formula: C₁₅H₁₉NO₇

Molecular Weight: 325.318

Accurate Mass: 325.116154

Percentage Composition: C 55.38%; H 5.89%; N 4.31%; O 34.43%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 154-160°

Optical Rotation: $[\alpha]_D^{20} -38$ (c, 0.82 in CHCl₃)

Other Data: Becomes anisotropic at *ca.* 100°