



CAS Registry Number: 10583-53-6

Molecular Formula: C₂₁H₂₅NO₁₀

Molecular Weight: 451.429

Accurate Mass: 451.147849

Percentage Composition: C 55.87%; H 5.58%; N 3.10%; O 35.44%

Melting Point: Mp 161-162°

Optical Rotation: $[\alpha]_D^{20} +114$ (c, 1.2 in CHCl₃)

>>**Derivative:** 4,6-*O*-Isopropylidene, di-Ac

Synonym(s): 2-Acetamido-1,3-di-*O*-acetyl-2-deoxy-4,6-*O*-isopropylidene- α -D-glucopyranose

CAS Registry Number: 50605-10-2

Molecular Formula: C₁₅H₂₃NO₈

Molecular Weight: 345.349

Accurate Mass: 345.142369

Percentage Composition: C 52.17%; H 6.71%; N 4.06%; O 37.06%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 137-138°

Optical Rotation: $[\alpha]_D^{20} +73$ (c, 1.0 in CHCl₃)

>>**Derivative:** 3,4,6-Tribenzyl, 1-benzoyl

Synonym(s): 2-Acetamido-1-*O*-benzoyl-3,4,6-tri-*O*-benzyl-2-deoxy- α -D-glucopyranose

Molecular Formula: C₃₆H₃₇NO₇

Molecular Weight: 595.691

Accurate Mass: 595.257004

Percentage Composition: C 72.59%; H 6.26%; N 2.35%; O 18.80%

Physical Description: Needles (diisopropyl ether)

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