



Molecular Weight: 491.583
Accurate Mass: 491.230789
Percentage Composition: C 70.86%; H 6.77%; N 2.85%; O 19.53%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 218-219°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +71.3$ (c, 1.08 in CHCl₃)

>>**Derivative:** Methyl glycoside
see Methyl 2-acetamido-2-deoxyglucopyranoside, [BXN65-X](#)

>>**Derivative:** Benzyl glycoside
see Benzyl 2-amino-2-deoxyglucopyranoside, [BXV36-D](#)

>>**Variant:** α -D-Pyranose-form

CAS Registry Number: 10036-64-3

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 203-205 dec.°
Optical Rotation: $[\alpha]_{\text{D}}^{21} +75 \rightarrow +41$ (c, 2 in H₂O)

>>**Derivative:** 1-Ac
see 1-*O*-Acetyl-2-amino-2-deoxyglucose, [BXV10-R](#)

>>**Derivative:** Di-Ac
Synonym(s): 2-Acetamido-1,3-di-*O*-acetyl-2-deoxy- α -D-glucopyranose

CAS Registry Number: 50605-11-3

Molecular Formula: C₁₂H₁₉NO₈
Molecular Weight: 305.284
Accurate Mass: 305.111069
Percentage Composition: C 47.21%; H 6.27%; N 4.59%; O 41.93%
Physical Description: Cryst. (CHCl₃)
Melting Point: Mp 172-173°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +80$ (c, 1.0 in MeOH)

>>**Derivative:** 1,3,4,6-Tetra-Ac
Synonym(s): 2-Acetamido-1,3,4,6-tetra-*O*-acetyl-2-deoxy- α -D-glucopyranose

CAS Registry Number: 7784-54-5

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 139°
Optical Rotation: $[\alpha]_{\text{D}} +92$ (CHCl₃)
Sigma: G4658

>>**Derivative:** 1-Benzoyl
Synonym(s): 2-Acetamido-1-*O*-benzoyl-2-deoxy- α -D-glucopyranose

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: Needles (EtOAc/EtOH)
Melting Point: Mp 192-193°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +190$ (c, 0.83 in MeOH)