



Melting Point: Mp 183-184°

Optical Rotation: $[\alpha]_D +11$ (MeOH)

>> **Derivative:** *N*-Ac

see 2-Acetamido-2-deoxyglucose, [BXT67-D](#)

>> **Derivative:** *N*-Benzoyl

see 2-Benzamido-2-deoxyglucose, [BXV22-W](#)

>> **Derivative:** *N*-(3,4-Dihydroxycinnamoyl)

Synonym(s): *N*-Caffeoylglucosamine

CAS Registry Number: 29028-19-1

Molecular Formula: C₁₅H₁₉NO₈

Molecular Weight: 341.317

Accurate Mass: 341.111069

Percentage Composition: C 52.79%; H 5.61%; N 4.10%; O 37.50%

Biological Source: Isol. from tobacco tumours (*Nicotiana tabacum*)

>> **Derivative:** *N*-(*tert*-Butoxycarbonyl)

CAS Registry Number: 75251-80-8

Molecular Formula: C₁₁H₂₁NO₇

Molecular Weight: 279.289

Accurate Mass: 279.131804

Percentage Composition: C 47.31%; H 7.58%; N 5.02%; O 40.10%

Melting Point: Mp 194 dec.°

Optical Rotation: $[\alpha]_D^{25} +64$ (c, 1 in MeOH)

Aldrich: 38131-4

Fluka: 15409

>> **Derivative:** *N*-Benzyloxycarbonyl

CAS Registry Number: 16684-31-4

Molecular Formula: C₁₄H₁₉NO₇

Molecular Weight: 313.307

Accurate Mass: 313.116154

Percentage Composition: C 53.67%; H 6.11%; N 4.47%; O 35.75%

Melting Point: Mp 214°

Optical Rotation: $[\alpha]_D -75.4$ (Py)

>> **Derivative:** 6-(Dihydrogen phosphate)

CAS Registry Number: 3616-42-0

Molecular Formula: C₆H₁₄NO₈P

Molecular Weight: 259.152

Accurate Mass: 259.045706

Percentage Composition: C 27.81%; H 5.44%; N 5.40%; O 49.39%; P 11.95%

Optical Rotation: $[\alpha]_D^{20} +60$ (c, 2 in 1*M* H₂SO₄)

pKa Value: p*K*_{a1} 6.1; p*K*_{a2} 8.14 (26°)

Sigma: G5509

>> **Derivative:** 6-(Dihydrogen phosphate), Ba salt

Optical Rotation: $[\alpha]_D^{20} +49.5$ (c, 4 in H₂O at pH 2)