Melting Point: Mp 165°

>>**Derivative:** *N*-Salicylidene

Melting Point: Mp 183-184°
Optical Rotation: $[\alpha]_D$ +11 (MeOH)

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

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

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

CAS Registry Number: 29028-19-1

Molecular Formula: $C_{15}H_{19}NO_8$
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: $C_{11}H_{21}NO_7$
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: $C_{14}H_{19}NO_7$
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: $C_6H_{14}NO_8P$
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* H_2SO_4)
pKa Value: pK_{a1} 6.1; pK_{a2} 8.14 (26°)
Sigma: G5509

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

Optical Rotation: $[\alpha]_D^{20}$+49.5 (c, 4 in H_2O at pH 2)