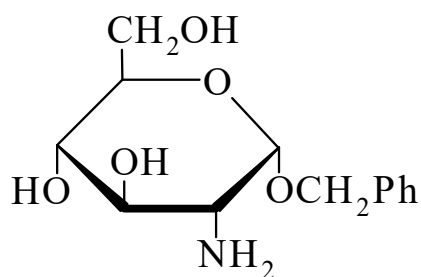




>>Entry Name: Benzyl 2-amino-2-deoxyglucopyranoside

Synonym(s): Phenylmethyl 2-amino-2-deoxyglucopyranoside, 9Cl. Benzylglucosaminide



α -D-Pyranose form

CAS Registry Number: 50692-69-8

Molecular Formula: C₁₃H₁₉NO₅

Molecular Weight: 269.297

Accurate Mass: 269.126324

Percentage Composition: C 57.98%; H 7.11%; N 5.20%; O 29.71%

>>Variant: α -D-form

Molecular Formula: C₁₃H₁₉NO₅

Molecular Weight: 269.297

Accurate Mass: 269.126324

Percentage Composition: C 57.98%; H 7.11%; N 5.20%; O 29.71%

>>Derivative: Hydrochloride

Physical Description: Granules (2-propanol)

Melting Point: Mp 233-234°

Optical Rotation: $[\alpha]_D^{20} +124$ (c, 1 in H₂O)

>>Derivative: N-Ac

Synonym(s): Benzyl 2-acetamido-2-deoxy- α -D-glucopyranoside

CAS Registry Number: 13343-62-9

Molecular Formula: C₁₅H₂₁NO₆

Molecular Weight: 311.334

Accurate Mass: 311.136889

Percentage Composition: C 57.87%; H 6.80%; N 4.50%; O 30.83%

Melting Point: Mp 185-186°

Optical Rotation: $[\alpha]_D^{20} +168$ (c, 0.2 in H₂O)

Sigma: B2397

>>Derivative: 4,6-*O*-Benzylidene, N-Ac

Synonym(s): Benzyl 2-acetamido-4,6-*O*-benzylidene-2-deoxy- α -D-glucopyranoside

CAS Registry Number: 13343-63-0

Molecular Formula: C₂₂H₂₅NO₆

Molecular Weight: 399.443

Accurate Mass: 399.168189

Percentage Composition: C 66.15%; H 6.31%; N 3.51%; O 24.03%

Physical Description: Prisms (dioxan/2-propanol)

Melting Point: Mp 263-264°

Optical Rotation: $[\alpha]_D^{26} +120$ (c, 1 in Py)

Fluka: 13145

>>Derivative: 4,6-*O*-Benzylidene, 3-benzoyl, N-Ac

Synonym(s): Benzyl 2-acetamido-3-*O*-benzoyl-4,6-*O*-benzylidene-2-deoxy- α -D-glucopyranoside

Molecular Formula: C₂₉H₂₉NO₇

Molecular Weight: 503.551

Accurate Mass: 503.194404

Percentage Composition: C 69.17%; H 5.80%; N 2.78%; O 22.24%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 218-220°

Optical Rotation: $[\alpha]$