Molecular Formula: $C_{20}H_{24}N_2O_{11}$
Molecular Weight: 468.416
Accurate Mass: 468.138013
Percentage Composition: C 51.28%; H 5.16%; N 5.98%; O 37.57%
Melting Point: Mp 168-169°
Optical Rotation: $[\alpha]_D$ +300 ($CHCl_3$)

>>**Variant:** β-D-Pyranose-form

CAS Registry Number: 7284-37-9

Molecular Formula: $C_6H_{13}NO_5$
Molecular Weight: 179.172
Accurate Mass: 179.079374
Percentage Composition: C 40.22%; H 7.31%; N 7.82%; O 44.65%
Melting Point: Mp 128-129°
Optical Rotation: $[\alpha]_D^{20}$+20.2 (H_2O)
Sigma: A5160

>>**Derivative:** *N*-Formyl

CAS Registry Number: 65293-32-5
Molecular Formula: $C_7H_{13}NO_6$
Molecular Weight: 207.183
Accurate Mass: 207.074289
Percentage Composition: C 40.58%; H 6.32%; N 6.76%; O 46.33%
Melting Point: Mp 182-183° (dec.)
Optical Rotation: $[\alpha]_D^{20}$ –2 (c, 0.5 in H_2O)

>>**Derivative:** *N*-Ac
Synonym(s): *N*-Acetyl-β-D-glucosylamine

Molecular Formula: $C_8H_{15}NO_6$
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 260° (256°)
Optical Rotation: $[\alpha]_D$ –22.8 (H_2O)

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

Molecular Formula: $C_{13}H_{17}NO_6$
Molecular Weight: 283.28
Accurate Mass: 283.105589
Percentage Composition: C 55.12%; H 6.05%; N 4.94%; O 33.89%
Physical Description: Prisms (EtOH)
Melting Point: Mp 228°

>>**Derivative:** *N*-Me

CAS Registry Number: 114761-39-6
Molecular Formula: $C_7H_{15}NO_5$
Molecular Weight: 193.199
Accurate Mass: 193.095024
Percentage Composition: C 43.52%; H 7.83%; N 7.25%; O 41.41%
Melting Point: Mp 79-81°
Optical Rotation: $[\alpha]_D^{20}$ –11 (c, 0.5 in H_2O)