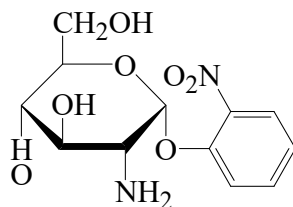




>>Entry Name: 2-Nitrophenyl 2-amino-2-deoxyglucoside

Synonym(s): 2-Nitrophenyl glucosamide



α -D-Pyranose-form

Molecular Formula: C₁₂H₁₆N₂O₇

Molecular Weight: 300.268

Accurate Mass: 300.095753

Percentage Composition: C 48.00%; H 5.37%; N 9.33%; O 37.30%

>>Variant: α -D-Pyranose-form

Molecular Formula: C₁₂H₁₆N₂O₇

Molecular Weight: 300.268

Accurate Mass: 300.095753

Percentage Composition: C 48.00%; H 5.37%; N 9.33%; O 37.30%

>>Derivative: *N*-Ac

CAS Registry Number: 10139-01-2

Molecular Formula: C₁₄H₁₈N₂O₈

Molecular Weight: 342.305

Accurate Mass: 342.106318

Percentage Composition: C 49.12%; H 5.30%; N 8.18%; O 37.39%

Use/Importance: Substrate for *N*-acetyl- α -D-glucosaminidase

Physical Description: Cryst. (EtOH)

Melting Point: Mp 208-208.5°

Optical Rotation: [α]_D +219 (c, 0.48 in H₂O)

>>Derivative: *N*,3,4,6-Tetra-Ac

Molecular Formula: C₂₀H₂₄N₂O₁₁

Molecular Weight: 468.416

Accurate Mass: 468.138013

Percentage Composition: C 51.28%; H 5.16%; N 5.98%; O 37.57%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 173.5-174.5°

Optical Rotation: [α]_D²³ +28.2 (c, 0.49 in CHCl₃)

>>Variant: β -D-Pyranose-form

Molecular Formula: C₁₂H₁₆N₂O₇

Molecular Weight: 300.268

Accurate Mass: 300.095753

Percentage Composition: C 48.00%; H 5.37%; N 9.33%; O 37.30%

>>Derivative: *N*-Ac

CAS Registry Number: 13264-92-1

Molecular Formula: C₁₄H₁₈N₂O₈

Molecular Weight: 342.305

Accurate Mass: 342.106318

Percentage Composition: C 49.12%; H 5.30%; N 8.18%; O 37.39%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 189-190° (dec.)

Optical Rotation: [α]_D²³ -34.7 (c, 0.52 in H₂O)

>>Derivative: *N*,3,4,6-Tetra-Ac