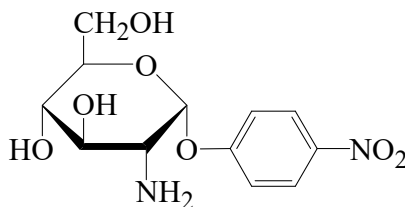




>>Entry Name: 4-Nitrophenyl 2-amino-2-deoxyglucoside

Synonym(s): 4-Nitrophenyl glucosaminide



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: 10139-02-3

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 274° (dec.)

Optical Rotation: [α]_D²³+273.4 (c, 0.37 in MeOH)

>>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 197.5-198.5°

Optical Rotation: [α]_D²³+192.8 (c, 0.64 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: 3459-18-5

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-β-D-glucosaminidase

Physical Description: Cryst. (EtOH or MeOH)

Melting Point: Mp 214° (206.2-206.7°)

Optical Rotation: [α]_D²³-19.4 (c, 0.3 in H₂O)

>>Derivative: *N*,3,4-Tri-Ac