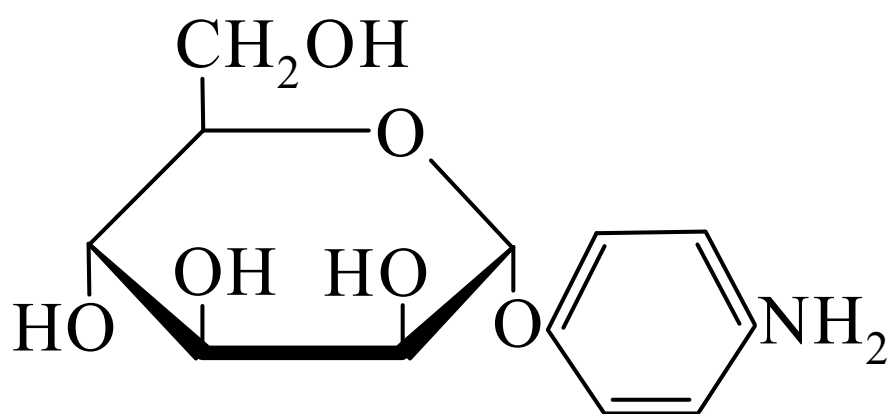




>>Entry Name: 4-Aminophenyl mannopyranoside, 8CI



Molecular Formula: C₁₂H₁₇NO₆

Molecular Weight: 271.269

Accurate Mass: 271.105589

Percentage Composition: C 53.13%; H 6.32%; N 5.16%; O 35.39%

>>Variant: α -D-form

CAS Registry Number: 34213-86-0

Molecular Formula: C₁₂H₁₇NO₆

Molecular Weight: 271.269

Accurate Mass: 271.105589

Percentage Composition: C 53.13%; H 6.32%; N 5.16%; O 35.39%

Use/Importance: Used as a carbohydrate ligand for preparing affinity adsorbents. Commercially available

Physical Description: Cryst. (EtOH)

Melting Point: Mp 171°

Optical Rotation: $[\alpha]_D^{20} +128$ (c, 1.0 in MeOH)

Sigma: A1394

>>Derivative: 4,6-*O*-Benzylidene, 2-benzyl

CAS Registry Number: 79726-87-7

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 130-131°

Optical Rotation: $[\alpha]_D +77$ (c, 0.5 in CHCl₃)

>>Derivative: *N*-Trifluoroacetyl, 4,6-*O*-benzylidene, 2-benzyl

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 210-212°

Optical Rotation: $[\alpha]_D +79$ (c, 0.5 in CHCl₃)

>>Derivative: *N,N*-Di-Me

CAS Registry Number: 74590-39-9

Molecular Formula: C₁₄H₂₁NO₆

Molecular Weight: 299.323

Accurate Mass: 299.136889

Percentage Composition: C 56.18%; H 7.07%; N 4.68%; O 32.07%

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 153-157°

Optical Rotation: $[\alpha]_D^{27} +127$ (c, 1.0 in MeOH)

References:

- Westphal, O. *et al.*, *Chem. Ber.*, 1956, **89**, 582-588, (α -D-form, *synth*)
Durette, P.L. *et al.*, *Carbohydr. Res.*, 1980, **81**, 261-274, (α -D-*N,N*-di-Me)
Cеровsky, V. *et al.*, *J. Biochem. Biophys. Methods*, 1980, **3**, 163
Downs, F.J. *et al.*, *Carbohydr. Res.*, 1981, **88**, 323-325, (α -D-form, *synth*)
Garegg, P.J. *et al.*, *Carbohydr. Res.*, 1981, **96**, 59-64, (*derivs*)
Amaike, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 2000, **73**, 2553-2558, (α -D-form, *synth*, *ir*, *pmr*)