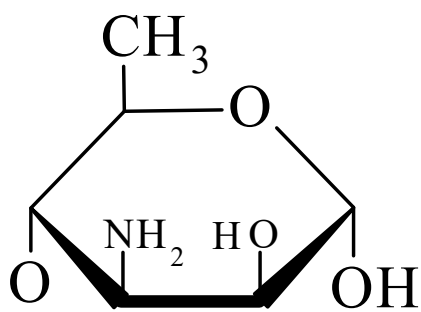




>>Entry Name: 3-Amino-3,6-dideoxymannose, 9CI



α -D-Pyranose-form

CAS Registry Number: 527-38-8

Molecular Formula: C₆H₁₃NO₄

Molecular Weight: 163.173

Accurate Mass: 163.084459

Percentage Composition: C 44.17%; H 8.03%; N 8.58%; O 39.22%

>>Variant: D-form

Synonym(s): Mycosamine

CAS Registry Number: 32817-12-2

Molecular Formula: C₆H₁₃NO₄

Molecular Weight: 163.173

Accurate Mass: 163.084459

Percentage Composition: C 44.17%; H 8.03%; N 8.58%; O 39.22%

Biological Source: Obt. by hydrol. of Amphotericin B [CKN61-R](#), Flavumycin A [CKV29-B](#), Nystatin [CJW13-Q](#), Pimaricin [CKK81-I](#) and Rimocidin [CJX16-Y](#)

>>Derivative: Hydrochloride

CAS Registry Number: 53989-77-8

Physical Description: Prismatic rods (EtOH/Et₂O)

Melting Point: Mp 162°

Optical Rotation: $[\alpha]_D^{24} -11.5$ (c, 1.0 in H₂O)

>>Derivative: N-Ac

Synonym(s): 3-Acetamido-3,6-dideoxy-D-mannose

Molecular Formula: C₈H₁₅NO₅

Molecular Weight: 205.21

Accurate Mass: 205.095024

Percentage Composition: C 46.82%; H 7.37%; N 6.83%; O 38.98%

Physical Description: Needles (MeOH/Me₂CO)

Melting Point: Mp 195-196°

Optical Rotation: $[\alpha]_D^{22} -46$ (c, 1.0 in EtOH)

>>Variant: α -D-Pyranose-form

Molecular Formula: C₆H₁₃NO₄

Molecular Weight: 163.173

Accurate Mass: 163.084459

Percentage Composition: C 44.17%; H 8.03%; N 8.58%; O 39.22%

>>Derivative: Me glycoside

Synonym(s): Methyl 3-amino-3,6-dideoxy- α -D-mannopyranoside

Molecular Formula: C₇H₁₅NO₄

Molecular Weight: 177.2

Accurate Mass: 177.100109

Percentage Composition: C 47.45%; H 8.53%; N 7.90%; O 36.12%

Physical Description: Needles (EtOH/Et₂O) (as hydrochloride)

Melting Point: Mp 188-190 dec.° (as hydrochloride)

Optical Rotation: $[\alpha]_D^{23} +54$ (c, 1.5 in MeOH)