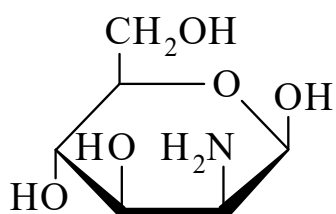




>>Entry Name: 2-Amino-2-deoxymannose, 9CI, 8CI

Synonym(s): Mannosamine



b-D-Pyr anose-*f*orm

CAS Registry Number: 2636-92-2

Related CAS Registry Numbers(s): 4773-29-9

Molecular Formula: C₆H₁₃NO₅

Molecular Weight: 179.172

Accurate Mass: 179.079374

Percentage Composition: C 40.22%; H 7.31%; N 7.82%; O 44.65%

>>Variant: D-form

CAS Registry Number: 14307-02-9

Molecular Formula: C₆H₁₃NO₅

Molecular Weight: 179.172

Accurate Mass: 179.079374

Percentage Composition: C 40.22%; H 7.31%; N 7.82%; O 44.65%

Biological Source: Constit. of the lipopolysaccharides of several strains of *Salmonella*, *Arizona*, *Proteus vulgaris* and *Clostridium welchii*

pKa Value: pK_a 7.28 (25°)

>>Derivative: Hydrochloride

CAS Registry Number: 5505-63-5

Physical Description: Cryst. (EtOH/Me₂CO aq.)

Melting Point: Mp 187° (178-180°)

Optical Rotation: [α]_D²⁰ -4.6 (c, 10 in 5% HCl aq.)

Aldrich: 28655-9

Fluka: 63575

Sigma: M4500

>>Derivative: *N*-Ac

Synonym(s): 2-Acetamido-2-deoxy-D-mannose

CAS Registry Number: 3615-17-6

Molecular Formula: C₈H₁₅NO₆

Molecular Weight: 221.21

Accurate Mass: 221.089939

Percentage Composition: C 43.44%; H 6.83%; N 6.33%; O 43.40%

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 128-129° (112-114°)

Optical Rotation: [α]_D²⁰ -9.4 → +9.7 (c, 10 in H₂O)

Other Data: Rapidly equilibrates in alk. soln. to form the *gluco* isomer

>>Variant: β-D-Pyranose-form

Molecular Formula: C₆H₁₃NO₅

Molecular Weight: 179.172

Accurate Mass: 179.079374

Percentage Composition: C 40.22%; H 7.31%; N 7.82%; O 44.65%