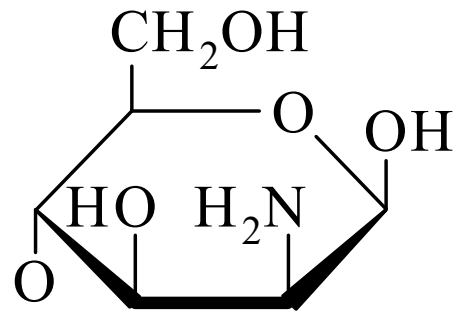
>>**Entry Name: 2-Amino-2-deoxymannose,** 9CI, 8CI
Synonym(s): Mannosamine



b-D-Pyranose-*form*

CAS Registry Number: 2636-92-2
Related CAS Registry Numbers(s): 4773-29-9

Molecular Formula: $C_6H_{13}NO_5$
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: $C_6H_{13}NO_5$
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/Me_2CO aq.)
Melting Point: Mp 187° (178-180°)
Optical Rotation: $[\alpha]_D^{20}$ –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: $C_8H_{15}NO_6$
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. (Me_2CO aq.)
Melting Point: Mp 128-129° (112-114°)
Optical Rotation: $[\alpha]_D^{20}$ –9.4 → +9.7 (c, 10 in H_2O)
Other Data: Rapidly equilibrates in alk. soln. to form the *gluco* isomer

>>**Variant:** β-D-Pyranose-form

Molecular Formula: $C_6H_{13}NO_5$
Molecular Weight: 179.172
Accurate Mass: 179.079374
Percentage Composition: C 40.22%; H 7.31%; N 7.82%; O 44.65%