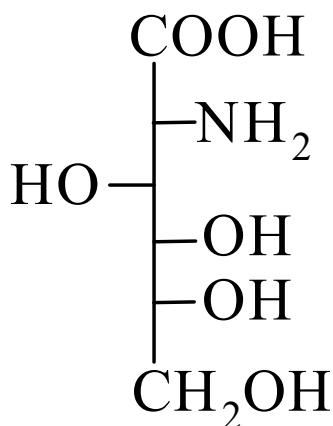




>>Entry Name: 2-Amino-2-deoxygluconic acid

Synonym(s): Glucosaminic acid



Molecular Formula: C₆H₁₃NO₆

Molecular Weight: 195.172

Accurate Mass: 195.074289

Percentage Composition: C 36.92%; H 6.71%; N 7.18%; O 49.19%

>>Variant: D-form

CAS Registry Number: 3646-68-2

Molecular Formula: C₆H₁₃NO₆

Molecular Weight: 195.172

Accurate Mass: 195.074289

Percentage Composition: C 36.92%; H 6.71%; N 7.18%; O 49.19%

Melting Point: Mp 250 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{18} -14.3$ (dil. HCl)

pKa Value: pK_{a1} 9.24 (20°)

Fluka: 49132

Sigma: G0259

>>Derivative: Me ester

CAS Registry Number: 35813-12-8

Molecular Formula: C₇H₁₅NO₆

Molecular Weight: 209.199

Accurate Mass: 209.089939

Percentage Composition: C 40.19%; H 7.23%; N 6.70%; O 45.89%

Melting Point: Mp 133-134° (as hydrochloride)

Optical Rotation: $[\alpha]_{\text{D}}^{20} -12$ (c, 2.0 in H₂O)

>>Derivative: N-Ac

Synonym(s): 2-Acetamido-2-deoxy-D-gluconic acid

CAS Registry Number: 34051-47-3

Molecular Formula: C₈H₁₅NO₇

Molecular Weight: 237.209

Accurate Mass: 237.084854

Percentage Composition: C 40.51%; H 6.37%; N 5.90%; O 47.21%

Melting Point: Mp 191-194° (as dicyclohexylammonium salt)

Optical Rotation: $[\alpha]_{\text{D}} -2.9$ (c, 1.0 in H₂O)