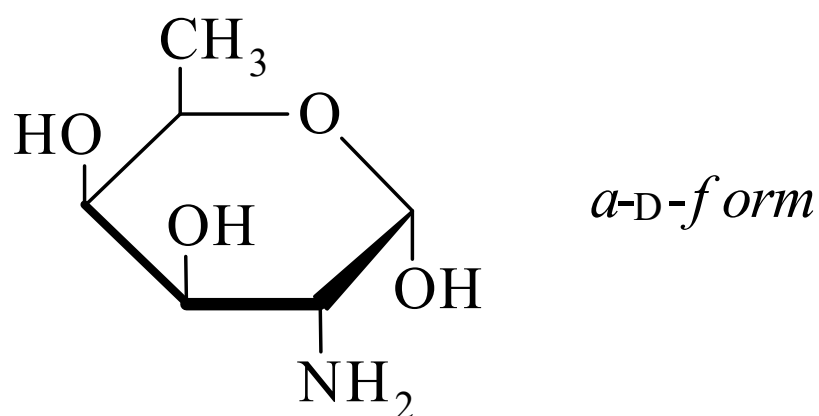




>>Entry Name: 2-Amino-2,6-dideoxygalactose, 8Cl

Synonym(s): Fucosamine



CAS Registry Number: 24724-90-1

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

CAS Registry Number: 6931-59-5

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. from Polysaccharides of *Chromobacterium violaceum*, *Bacillus licheniformis*, *Bacillus subtilis*, *Bacillus cereus* and *Staphylococcus aureus*. Also in swine erysipelas bacteria (*Erysipelothrix insidiosa*)

>>Derivative: Phenylosazone

Optical Rotation: $[\alpha]_D^{20} +38$ (c, 1.0 in 2:3 Py/EtOH)

>>Derivative: Hydrochloride

CAS Registry Number: 49694-68-0

Melting Point: Mp 170-175 dec.°. Mp 192-193 dec.°

Optical Rotation: $[\alpha]_D^{20} +93$ (c, 0.4 in H₂O)

>>Derivative: N-Ac

Synonym(s): 2-Acetamido-2,6-dideoxy-D-galactose

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: Cryst. (EtOH)

Melting Point: Mp 201-202°

Optical Rotation: $[\alpha]_D^{20} +87$ (c, 0.4 in H₂O)

>>Derivative: N-Me, N-Ac

Synonym(s): 2,6-Dideoxy-2-(N-methylacetamido)-D-galactose. N-Acetyl-N-methyl-D-fucosamine

Molecular Formula: C₉H₁₇NO₅

Molecular Weight: 219.237

Accurate Mass: 219.110674

Percentage Composition: C 49.31%; H 7.82%; N 6.39%; O 36.49%

Source/Synthesis: Present in some type-specific polysaccharides of *Bordetella pertussis* endotoxins

Physical Description: Hemihydrate

Optical Rotation: $[\alpha]_D +37$ (c, 0.5 in H₂O, equilib.)

Other Data: V. sensitive to acid-catalysed glycosidation. The abs. config. of the natural sugar does not yet appear to have been demonstrated (1994)