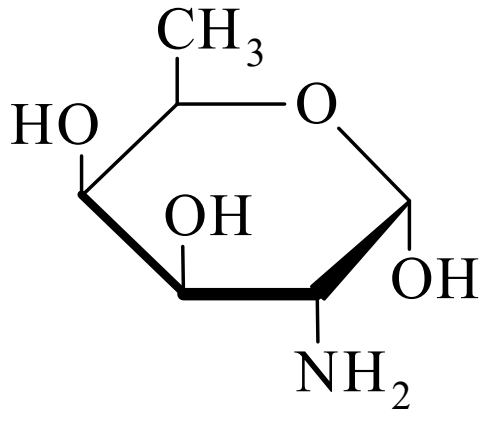
>>**Entry Name: 2-Amino-2,6-dideoxygalactose,** 8CI
**Synonym(s):** Fucosamine




*a*-D-*form*

**CAS Registry Number:** 24724-90-1

**Molecular Formula:** $C_6H_{13}NO_4$
**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:** $C_6H_{13}NO_4$
**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 (*Erysipelothix 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 $H_2O$)

>>**Derivative:** *N*-Ac
**Synonym(s):** 2-Acetamido-2,6-dideoxy-D-galactose

**Molecular Formula:** $C_8H_{15}NO_5$
**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 $H_2O$)

>>**Derivative:** *N*-Me, *N*-Ac
**Synonym(s):** 2,6-Dideoxy-2-(*N*-methylacetamido)-D-galactose. *N*-Acetyl-*N*-methyl-D-fucosamine

**Molecular Formula:** $C_9H_{17}NO_5$
**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 $H_2O$, 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)