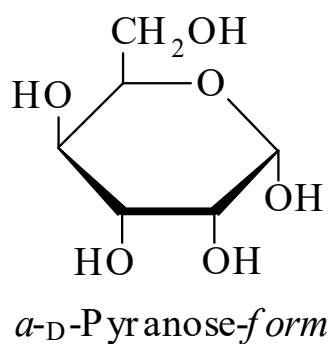




>>Entry Name: Gulose, 8Cl



**CAS Registry Number:** 19163-87-2

**Related CAS Registry Numbers(s):** 7283-08-1 39281-67-9 40461-80-1 41847-32-9 41847-34-1 41847-35-2 41939-33-7

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.157

**Accurate Mass:** 180.06339

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

>>Variant: D-form

**CAS Registry Number:** 4205-23-6

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.157

**Accurate Mass:** 180.06339

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

**Physical Description:** Syrup

**Optical Rotation:**  $[\alpha]_D^{20} -20.4$  (H<sub>2</sub>O)

**Other Data:** Sweet taste. Usually isol. as a complex with CaCl<sub>2</sub>,  $[\alpha]_D +38^\circ \rightarrow -15^\circ$

**Sigma:** G2008

>>Derivative: Phenylhydrazone

**CAS Registry Number:** 6027-88-9

**Melting Point:** Mp 143°

>>Derivative: *N*-Benzyl-*N*-phenylhydrazone

**Melting Point:** Mp 124°

>>Derivative: Phenylsazone

>>Variant:  $\alpha$ -D-Pyranose-form

**CAS Registry Number:** 7282-78-2

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.157

**Accurate Mass:** 180.06339

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

>>Derivative: Penta-Ac

**Synonym(s):** Penta-*O*-acetyl- $\alpha$ -D-gulopyranose

**CAS Registry Number:** 4163-61-5

**Molecular Formula:** C<sub>16</sub>H<sub>22</sub>O<sub>11</sub>

**Molecular Weight:** 390.343

**Accurate Mass:** 390.116215

**Percentage Composition:** C 49.23%; H 5.68%; O 45.09%

**Melting Point:** Mp 106°

**Optical Rotation:**  $[\alpha]_D +86.2$  (CHCl<sub>3</sub>)