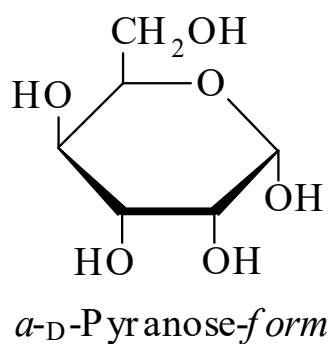




>>Entry Name: Gulose, 8Cl



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: C₆H₁₂O₆

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: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

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

Physical Description: Syrup

Optical Rotation: $[\alpha]_D^{20} -20.4$ (H₂O)

Other Data: Sweet taste. Usually isol. as a complex with CaCl₂, $[\alpha]_D +38^\circ \rightarrow -15^\circ$

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: α-D-Pyranose-form

CAS Registry Number: 7282-78-2

Molecular Formula: C₆H₁₂O₆

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-α-D-gulopyranose

CAS Registry Number: 4163-61-5

Molecular Formula: C₁₆H₂₂O₁₁

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: $[\alpha]_D +86.2$ (CHCl₃)