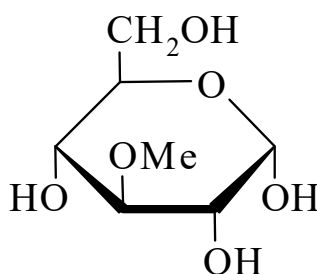




>>Entry Name: 3-*O*-Methylglucose, 9CI, 8CI



α -D-Pyranose-*form*

CAS Registry Number: 146-72-5

Molecular Formula: C₇H₁₄O₆

Molecular Weight: 194.184

Accurate Mass: 194.07904

Percentage Composition: C 43.30%; H 7.27%; O 49.44%

Sigma: M1031

>>Variant: D-form

Molecular Formula: C₇H₁₄O₆

Molecular Weight: 194.184

Accurate Mass: 194.07904

Percentage Composition: C 43.30%; H 7.27%; O 49.44%

Biological Source: Constit. of *Rhizobium* extracellular polysaccharides

Melting Point: Mp 168°

Optical Rotation: [α]_D +104 → +55 (H₂O)

>>Variant: α -D-Pyranose-form

CAS Registry Number: 13224-94-7

Molecular Formula: C₇H₁₄O₆

Molecular Weight: 194.184

Accurate Mass: 194.07904

Percentage Composition: C 43.30%; H 7.27%; O 49.44%

Aldrich: 85550-2

Sigma: M4879

>>Derivative: Me glycoside

Synonym(s): Methyl 3-*O*-methyl- α -D-glucopyranoside

CAS Registry Number: 5149-37-1

Molecular Formula: C₈H₁₆O₆

Molecular Weight: 208.211

Accurate Mass: 208.09469

Percentage Composition: C 46.15%; H 7.75%; O 46.11%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 81-82°

Optical Rotation: [α]_D²¹ +148 (c, 0.8 in H₂O)

>>Derivative: Me glycoside, 4,6-*O*-benzylidene

Synonym(s): Methyl 4,6-*O*-benzylidene-3-*O*-methyl- α -D-glucopyranoside

CAS Registry Number: 20770-95-0

Molecular Formula: C₁₅H₂₀O₆

Molecular Weight: 296.319

Accurate Mass: 296.12599

Percentage Composition: C 60.80%; H 6.80%; O 32.40%

Melting Point: Mp 150-151° (133°)

Optical Rotation: [α]_D +119.5 (+49.1) (C₂H₂Cl₄)

>>Variant: β -D-Pyranose-form

CAS Registry Number: 13224-95-8