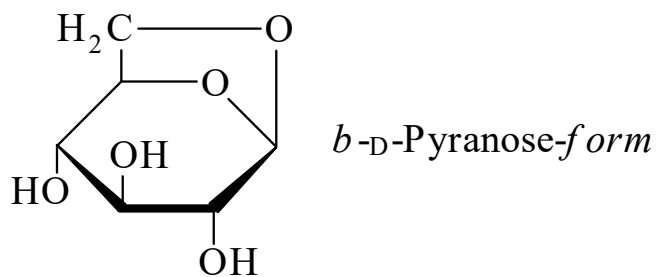




>>Entry Name: 1,6-Anhydroglucose



b-D-Pyranose-*form*

Molecular Formula: C₆H₁₀O₅

Molecular Weight: 162.142

Accurate Mass: 162.052825

Percentage Composition: C 44.45%; H 6.22%; O 49.34%

>>Variant: β-D-Pyranose-form

Synonym(s): Levoglucosan. β-Glucosan

CAS Registry Number: 498-07-7

Molecular Formula: C₆H₁₀O₅

Molecular Weight: 162.142

Accurate Mass: 162.052825

Percentage Composition: C 44.45%; H 6.22%; O 49.34%

Melting Point: Mp 184° (179-180°)

Optical Rotation: [α]_D −66.3 (H₂O)

Aldrich: 31655-5

Fluka: 10390

Sigma: A1526

>>Derivative: Tri-Ac

Synonym(s): 2,3,4-Tri-*O*-acetyl-1,6-anhydro-β-D-glucopyranose

CAS Registry Number: 13242-55-2

Molecular Formula: C₁₂H₁₆O₈

Molecular Weight: 288.254

Accurate Mass: 288.08452

Percentage Composition: C 50.00%; H 5.59%; O 44.40%

Melting Point: Mp 109-110°

Optical Rotation: [α]_D²⁵ −50.8 (CHCl₃)

Sigma: A9779

>>Derivative: Tribenzoyl

Synonym(s): 1,6-Anhydro-2,3,4-tri-*O*-benzoyl-β-D-glucopyranose

CAS Registry Number: 23567-05-7

Molecular Formula: C₂₇H₂₂O₈

Molecular Weight: 474.466

Accurate Mass: 474.13147

Percentage Composition: C 68.35%; H 4.67%; O 26.98%

Melting Point: Mp 202-203°

Optical Rotation: [α]_D²⁰ −36.4 (CHCl₃)

Sigma: A4172