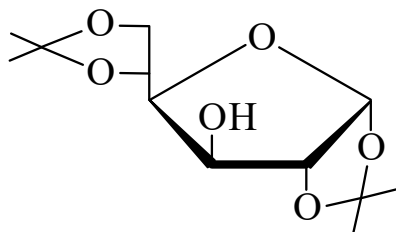




>>Entry Name: 1,2:5,6-Di-*O*-isopropylideneglucofuranose, 8Cl

Synonym(s): Diacetone glucose



CAS Registry Number: 582-52-5

Molecular Formula: C₁₂H₂₀O₆

Molecular Weight: 260.286

Accurate Mass: 260.12599

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Aldrich: D760-0

Fluka: 31460

Sigma: D0640

>>Variant: α-D-form

Type of Compound Code(s): AF0900

Molecular Formula: C₁₂H₂₀O₆

Molecular Weight: 260.286

Accurate Mass: 260.12599

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Source/Synthesis: Readily obt. in 1 step from glucose

Use/Importance: Important chiral building block

Melting Point: Mp 111-113°

Optical Rotation: [α]_D −19.7 (H₂O)

>>Derivative: 3-Ac

Synonym(s): 3-*O*-Acetyl-1,2:5,6-di-*O*-isopropylidene-α-D-glucofuranose, 8Cl

CAS Registry Number: 16713-80-7

Type of Compound Code(s): AF0900

Molecular Formula: C₁₄H₂₂O₇

Molecular Weight: 302.324

Accurate Mass: 302.136555

Percentage Composition: C 55.62%; H 7.33%; O 37.05%

Melting Point: Mp 62-63°

Optical Rotation: [α]_D −31.6 (EtOH)

Aldrich: 33227-5

Rare Chemicals Library: S75757-8

>>Derivative: 3-Benzoyl

Synonym(s): 3-*O*-Benzoyl-1,2:5,6-di-*O*-isopropylidene-α-D-glucofuranose

CAS Registry Number: 13964-22-2

Type of Compound Code(s): AF0900

Molecular Formula: C₁₉H₂₄O₇

Molecular Weight: 364.394

Accurate Mass: 364.152205

Percentage Composition: C 62.63%; H 6.64%; O 30.73%

Melting Point: Mp 66.5°

Optical Rotation: [α]_D²⁰ −53.5 (CHCl₃)

>>Derivative: 3-*O*-(4-Bromobenzoyl)

Melting Point: Mp 79-80°

Optical Rotation: [α]_D¹⁹ −49.1 (Me₂CO)