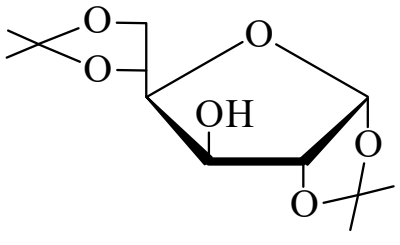
>>**Entry Name: 1,2:5,6-Di-*O*-isopropylideneglucofuranose,** 8CI
Synonym(s): Diacetone glucose



CAS Registry Number: 582-52-5

Molecular Formula: $C_{12}H_{20}O_6$
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: $C_{12}H_{20}O_6$
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: $[\alpha]_D$ –19.7 (H_2O)

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

CAS Registry Number: 16713-80-7
Type of Compound Code(s): AF0900
Molecular Formula: $C_{14}H_{22}O_7$
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: $[\alpha]_D$ –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: $C_{19}H_{24}O_7$
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: $[\alpha]_D^{20}$ –53.5 ($CHCl_3$)

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

Melting Point: Mp 79-80°
Optical Rotation: $[\alpha]_D^{19}$ –49.1 (Me_2CO)

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