



Optical Rotation: $[\alpha]_D^{28} +35.5$ (c, 2 in CHCl_3)

>> **Derivative:** 2,3,4,6-Tetra-Ac

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

CAS Registry Number: 3947-62-4

Molecular Formula: $\text{C}_{14}\text{H}_{20}\text{O}_{10}$

Molecular Weight: 348.306

Accurate Mass: 348.10565

Percentage Composition: C 48.28%; H 5.79%; O 45.93%

Melting Point: Mp 120°

Optical Rotation: $[\alpha]_D +2.2 \rightarrow +82.7$ (CHCl_3)

>> **Derivative:** Penta-Ac

>> **Derivative:** 1,6-Bis-*O*-(3-methylbutanoyl)

Synonym(s): 1,6-Diisopentanoylglucose

CAS Registry Number: 152502-35-7

Molecular Formula: $\text{C}_{16}\text{H}_{28}\text{O}_8$

Molecular Weight: 348.392

Accurate Mass: 348.17842

Percentage Composition: C 55.16%; H 8.10%; O 36.74%

Source/Synthesis: Constit. of *Centaurea aspera* var. *subinermis*

Physical Description: Viscous gum

Optical Rotation: $[\alpha]_D^{21} -45$ (c, 0.14 in CHCl_3)

>> **Derivative:** 1-Benzoyl

>> **Derivative:** 6-Benzoyl, 1,2,3,4-tetra-Ac

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

CAS Registry Number: 71208-20-3

Molecular Formula: $\text{C}_{21}\text{H}_{24}\text{O}_{11}$

Molecular Weight: 452.414

Accurate Mass: 452.131865

Percentage Composition: C 55.75%; H 5.35%; O 38.90%

Melting Point: Mp 132°

Optical Rotation: $[\alpha]_D^{21} +32.9$ (CHCl_3)

>> **Derivative:** Pentabenzoyl

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

CAS Registry Number: 14679-57-3

Molecular Formula: $\text{C}_{41}\text{H}_{32}\text{O}_{11}$

Molecular Weight: 700.697

Accurate Mass: 700.194465

Percentage Composition: C 70.28%; H 4.60%; O 25.12%

Melting Point: Mp 157°

Optical Rotation: $[\alpha]_D^{20} +24$ (CHCl_3)