



Synonym(s): Methyl 6-deoxy-β-D-glucopyranoside

CAS Registry Number: 6340-52-9

Molecular Formula: C₇H₁₄O₅

Molecular Weight: 178.185

Accurate Mass: 178.084125

Percentage Composition: C 47.19%; H 7.92%; O 44.90%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 130-132°

Optical Rotation: [α]_D −55 (H₂O)

Sigma: M3140

>>Derivative: Me glycoside, 3,4-ditosyl

Synonym(s): Methyl 6-deoxy-3,4-di-*O*-tosyl-β-D-glucopyranoside

Molecular Formula: C₂₁H₂₆O₉S₂

Molecular Weight: 486.563

Accurate Mass: 486.101825

Percentage Composition: C 51.84%; H 5.39%; O 29.59%; S 13.18%

Melting Point: Mp 139-140°

Optical Rotation: [α]_D −16 (CHCl₃)

>>Derivative: Me glycoside, 2,3,4-tritosyl

Synonym(s): Methyl 6-deoxy-2,3,4-tri-*O*-tosyl-β-D-glucopyranoside

Molecular Formula: C₂₈H₃₂O₁₁S₃

Molecular Weight: 640.752

Accurate Mass: 640.110675

Percentage Composition: C 52.49%; H 5.03%; O 27.47%; S 15.01%

Melting Point: Mp 174-175°

Optical Rotation: [α]_D −23 (CHCl₃)

>>Derivative: 3-Me, Tri-Ac

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

Molecular Formula: C₁₃H₂₀O₈

Molecular Weight: 304.296

Accurate Mass: 304.11582

Percentage Composition: C 51.31%; H 6.62%; O 42.06%

Melting Point: Mp 121°

Optical Rotation: [α]_D +7.8 (Me₂CO)

>>Derivative: 3-Me, Me glycoside

Synonym(s): Methyl 6-deoxy-3-*O*-methyl-β-D-glucopyranoside

Molecular Formula: C₈H₁₆O₅

Molecular Weight: 192.211

Accurate Mass: 192.099775

Percentage Composition: C 49.99%; H 8.39%; O 41.62%

Melting Point: Mp 116°

Optical Rotation: [α]_D −42.1 (MeOH). [α]_D −43.9 (H₂O)

>>Derivative: 3-Me, Me glycoside, di-Ac

Synonym(s): Methyl 2,4-di-*O*-acetyl-6-deoxy-3-*O*-methyl-β-D-glucopyranoside

Molecular Formula: C₁₂H₂₀O₇

Molecular Weight: 276.286

Accurate Mass: 276.120905

Percentage Composition: C 52.17%; H 7.30%; O 40.54%

Melting Point: Mp 161°

Optical Rotation: [α]_D −26.3 (CHCl₃)