



Molecular Formula: C₇H₁₄O₅S
Molecular Weight: 210.251
Accurate Mass: 210.056195
Percentage Composition: C 39.99%; H 6.71%; O 38.05%; S 15.25%
Physical Description: Syrup
Optical Rotation: $[\alpha]_{\text{D}}^{15} -18.1$ (H₂O)

>> **Derivative:** Me glycoside, tetra-Ac
Synonym(s): Methyl 2,3,4,6-tetra-*O*-acetyl-1-thio-β-D-glucopyranoside

CAS Registry Number: 13350-45-3

Molecular Formula: C₁₅H₂₂O₉S
Molecular Weight: 378.399
Accurate Mass: 378.098455
Percentage Composition: C 47.61%; H 5.86%; O 38.05%; S 8.47%
Melting Point: Mp 94-95°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -18.6$ (c, 2.6 in C₂H₂Cl₄)
Sigma: M8156

>> **Derivative:** Me glycoside, 4,6-*O*-benzylidene
Synonym(s): Methyl 4,6-*O*-benzylidene-1-thio-β-D-glucopyranoside

Molecular Formula: C₁₄H₁₈O₅S
Molecular Weight: 298.359
Accurate Mass: 298.087495
Percentage Composition: C 56.36%; H 6.08%; O 26.81%; S 10.75%
Melting Point: Mp 184-185°
Optical Rotation: $[\alpha]_{\text{D}} -49$ (c, 0.55 in CHCl₃)

>> **Derivative:** Me glycoside, 4,6-*O*-benzylidene, 2-benzoyl
Synonym(s): Methyl 2-*O*-benzoyl-4,6-*O*-benzylidene-1-thio-β-D-glucopyranoside

Molecular Formula: C₂₁H₂₂O₆S
Molecular Weight: 402.467
Accurate Mass: 402.11371
Percentage Composition: C 62.67%; H 5.51%; O 23.85%; S 7.97%
Melting Point: Mp 187-188°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -26$ (c, 1.1 in CHCl₃)

>> **Derivative:** Me glycoside, 4,6-*O*-benzylidene, 3-benzoyl
Synonym(s): Methyl 3-*O*-benzoyl-4,6-*O*-benzylidene-1-thio-β-D-glucopyranoside

Molecular Formula: C₂₁H₂₂O₆S
Molecular Weight: 402.467
Accurate Mass: 402.11371
Percentage Composition: C 62.67%; H 5.51%; O 23.85%; S 7.97%
Melting Point: Mp 158-159°
Optical Rotation: $[\alpha]_{\text{D}} -117$ (c, 1.1 in CHCl₃)

>> **Derivative:** Et glycoside
Synonym(s): Ethyl 1-thio-β-D-glucopyranoside

Molecular Formula: C₈H₁₆O₅S
Molecular Weight: 224.277
Accurate Mass: 224.071845
Percentage Composition: C 42.84%; H 7.19%; O 35.67%; S 14.30%
Melting Point: Mp 100°
Optical Rotation: $[\alpha]_{\text{D}} -57$ (H₂O)