



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 89°
Optical Rotation: [α]_D²³+150 (CHCl₃)

>>Derivative: Et glycoside

Synonym(s): Ethyl 1-thio- α -D-glucopyranoside

CAS Registry Number: 13533-58-9

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 117°
Optical Rotation: [α]_D+269 (H₂O)

>>Derivative: Et glycoside, tetra-Ac

Synonym(s): Ethyl 2,3,4,6-tetra-*O*-acetyl-1-thio- α -D-glucopyranoside

CAS Registry Number: 41670-79-5

Molecular Formula: C₁₆H₂₄O₉S
Molecular Weight: 392.426
Accurate Mass: 392.114105
Percentage Composition: C 48.97%; H 6.16%; O 36.69%; S 8.17%
Melting Point: Mp 97.5°
Optical Rotation: [α]_D+207 (CHCl₃)

>>Derivative: *tert*-Butyl glycoside, tetra-Ac

Synonym(s): *tert*-Butyl 2,3,4,6-tetra-*O*-acetyl-1-thio- α -D-glucopyranoside

Molecular Formula: C₁₈H₂₈O₉S
Molecular Weight: 420.48
Accurate Mass: 420.145405
Percentage Composition: C 51.42%; H 6.71%; O 34.25%; S 7.63%
Physical Description: Cryst. (hexane)
Melting Point: Mp 62-64° (59°)
Optical Rotation: [α]_D²⁹+183 (c, 0.5 in CHCl₃)

>>Derivative: Benzyl glycoside

Synonym(s): Benzyl 1-thio- α -D-glucopyranoside

Molecular Formula: C₁₃H₁₈O₅S
Molecular Weight: 286.348
Accurate Mass: 286.087495
Percentage Composition: C 54.53%; H 6.34%; O 27.94%; S 11.20%
Melting Point: Mp 112-114°
Optical Rotation: [α]_D+175.7 (H₂O)

>>Derivative: Benzyl glycoside, tetra-Ac

Synonym(s): Benzyl 2,3,4,6-tetra-*O*-acetyl-1-thio- α -D-glucopyranoside

Molecular Formula: C₂₁H₂₆O₉S
Molecular Weight: 454.497
Accurate Mass: 454.129755
Percentage Composition: C 55.50%; H 5.77%; O 31.68%; S 7.06%
Melting Point: Mp 77°
Optical Rotation: [α]_D+200.8 (EtOH)