



Melting Point: Mp 119°
Optical Rotation: $[\alpha]_D^{20} +48$ (c, 0.8 in CHCl₃)

>>**Variant:** β-D-Pyranose-form

CAS Registry Number: 49858-49-3
Molecular Formula: C₆H₁₂O₅S
Molecular Weight: 196.224
Accurate Mass: 196.040545
Percentage Composition: C 36.73%; H 6.16%; O 40.77%; S 16.34%

>>**Derivative:** Me glycoside
Synonym(s): Methyl 1-thio-β-D-galactopyranoside

CAS Registry Number: 155-30-6

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: Cryst. (EtOH)
Melting Point: Mp 174-175°
Optical Rotation: $[\alpha]_D^{20} +11$ (H₂O)
Sigma: M7627

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

CAS Registry Number: 55722-48-0

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%
Physical Description: Needles (EtOH)
Melting Point: Mp 108°
Optical Rotation: $[\alpha]_D^{17} +3$ (CHCl₃)

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

CAS Registry Number: 56245-60-4

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%
Physical Description: Cryst. (EtOH/EtOAc)
Melting Point: Mp 122°
Optical Rotation: $[\alpha]_D^{26} -24$ (c, 0.9 in H₂O)

>>**Derivative:** Et glycoside, tetra-Ac
Synonym(s): Ethyl 2,3,4,6-tetra-*O*-acetyl-1-thio-β-D-galactopyranoside

CAS Registry Number: 55722-49-1

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 74-75°
Optical Rotation: $[\alpha]_D^{26} -8$ (c, 2.1 in CHCl₃)