**Melting Point:** Mp 119°
**Optical Rotation:** $[\alpha]_D$ +48 (c, 0.8 in $CHCl_3$)

>>**Variant:** β-D-Pyranose-form

**CAS Registry Number:** 49858-49-3
**Molecular Formula:** $C_6H_{12}O_5S$
**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:** $C_7H_{14}O_5S$
**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 ($H_2O$)
**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:** $C_{15}H_{22}O_9S$
**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 ($CHCl_3$)

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

**CAS Registry Number:** 56245-60-4

**Molecular Formula:** $C_8H_{16}O_5S$
**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 $H_2O$)

>>**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:** $C_{16}H_{24}O_9S$
**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 $CHCl_3$)