>>**Variant:** β-D-Furanose-form

Molecular Formula: $C_4H_8O_4$
Molecular Weight: 120.105
Accurate Mass: 120.04226
Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>**Derivative:** 1,2-*O*-Isopropylidene
Synonym(s): 1,2-*O*-Isopropylidene-β-D-threofuranose

Molecular Formula: $C_7H_{12}O_4$
Molecular Weight: 160.169
Accurate Mass: 160.07356
Percentage Composition: C 52.49%; H 7.55%; O 39.96%
Physical Description: Needles (Et_2O/pentane)
Melting Point: Mp 84°
Optical Rotation: $[\alpha]_D^{22}$ –15.27 (c, 2.3 in Me_2CO)

>>**Derivative:** 1,2-*O*-Isopropylidene, 3-Ac
Synonym(s): 3-*O*-Acetyl-1,2-*O*-isopropylidene-β-D-threofuranose

CAS Registry Number: 29412-22-4

Molecular Formula: $C_9H_{14}O_5$
Molecular Weight: 202.207
Accurate Mass: 202.084125
Percentage Composition: C 53.46%; H 6.98%; O 39.56%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{18}$ –46.5 (c, 3.47 in $CHCl_3$)

>>**Derivative:** Me glycoside
Synonym(s): Methyl β-D-threofuranoside

Molecular Formula: $C_5H_{10}O_4$
Molecular Weight: 134.132
Accurate Mass: 134.05791
Percentage Composition: C 44.77%; H 7.51%; O 47.71%

>>**Variant:** L-form

CAS Registry Number: 95-44-3

Molecular Formula: $C_4H_8O_4$
Molecular Weight: 120.105
Accurate Mass: 120.04226
Percentage Composition: C 40.00%; H 6.71%; O 53.28%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D$ +12 (c, 1 in H_2O)
Sigma: T7642

>>**Derivative:** Tri-Ac
Synonym(s): Tri-*O*-acetyl-L-threose

Molecular Formula: $C_{10}H_{14}O_7$
Molecular Weight: 246.216
Percentage Composition: C 48.78%; H 5.73%; O 45.49%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 117-118°
Optical Rotation: $[\alpha]_D^{28}$ –35.5 (c, 4.2 in $CHCl_3$)