CAS Registry Number: 57495-46-2

Molecular Formula: $C_{18}H_{22}O_8S_2$
Molecular Weight: 430.499
Accurate Mass: 430.07561
Percentage Composition: C 50.22%; H 5.15%; O 29.73%; S 14.90%
Physical Description: Cryst. ($CHCl_3$)
Melting Point: Mp 76-77°
Optical Rotation: $[\alpha]_D^{20}$ –4.6 (c, 2.1 in Me_2CO)

>>**Derivative:** 2,3-*O*-Isopropylidene
Synonym(s): 2,3-*O*-Isopropylidene-L-threitol

CAS Registry Number: 50622-09-8

Molecular Formula: $C_7H_{14}O_4$
Molecular Weight: 162.185
Accurate Mass: 162.08921
Percentage Composition: C 51.84%; H 8.70%; O 39.46%
Physical Description: Cryst. (diisopropyl ether)
Melting Point: Mp 48-51°
Boiling Point: $Bp_{0.01}$ 91-93°
Optical Rotation: $[\alpha]_D^{20}$ +5.1 (c, 5 in $CHCl_3$)
Aldrich: 24142-3
Fluka: 59539

>>**Derivative:** 2,3-*O*-Isopropylidene, 1,4-ditosyl
Synonym(s): 2,3-*O*-Isopropylidene-1,4-di-*O*-tosyl-L-threitol

CAS Registry Number: 37002-45-2

Molecular Formula: $C_{21}H_{26}O_8S_2$
Molecular Weight: 470.564
Accurate Mass: 470.10691
Percentage Composition: C 53.60%; H 5.57%; O 27.20%; S 13.63%
Melting Point: Mp 92-93°
Optical Rotation: $[\alpha]_D^{23}$ –12.3 (c, 8.8 in $CHCl_3$)
Aldrich: 22629-7
Fluka: 43880
Sigma: D7152
Other: Kiralchem

>>**Derivative:** 1,3-*O*-Benzylidene
Synonym(s): 1,3-*O*-Benzylidene-L-threitol. 5-Hydroxy-2-phenyl-1,3-dioxane-4-methanol

CAS Registry Number: 81577-58-4

Molecular Formula: $C_{11}H_{14}O_4$
Molecular Weight: 210.229
Accurate Mass: 210.08921
Percentage Composition: C 62.85%; H 6.71%; O 30.44%
Physical Description: Cryst. (EtOAc/petrol)
Melting Point: Mp 139-141° (133-134°)
Optical Rotation: $[\alpha]_D$ +8 (c, 1.2 in Py)

>>**Derivative:** 2,3-*O*-Benzylidene
Synonym(s): 2,3-*O*-Benzylidene-L-threitol

CAS Registry Number: 35572-34-0

Molecular Formula: $C_{11}H_{14}O_4$
Molecular Weight: 210.229
Accurate Mass: 210.08921
Percentage Composition: C 62.85%; H 6.71%; O 30.44%
Use/Importance: Cyclosporin A intermed.
Melting Point: Mp 72-74°
Optical Rotation: $[\alpha]_D^{20}$ –10.5 (c, 2 in MeOH)