



CAS Registry Number: 57495-46-2

Molecular Formula: C₁₈H₂₂O₈S₂

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. (CHCl₃)

Melting Point: Mp 76-77°

Optical Rotation: [α]_D²⁰ -4.6 (c, 2.1 in Me₂CO)

>> **Derivative:** 2,3-*O*-Isopropylidene

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

CAS Registry Number: 50622-09-8

Molecular Formula: C₇H₁₄O₄

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: [α]_D²⁰ +5.1 (c, 5 in CHCl₃)

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: C₂₁H₂₆O₈S₂

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: [α]_D²³ -12.3 (c, 8.8 in CHCl₃)

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: C₁₁H₁₄O₄

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: [α]_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: C₁₁H₁₄O₄

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: [α]_D²⁰ -10.5 (c, 2 in MeOH)