



CAS Registry Number: 51064-65-4

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 89-91°

Optical Rotation: $[\alpha]_D^{20} +12.1$ (c, 8.8 in CHCl₃)

Aldrich: 24822-3

Fluka: 43875

Sigma: D7277

Other: Kiralchem

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

Synonym(s): 2,3-*O*-Benzylidene-D-threitol. 2-Phenyl-1,3-dioxolane-4,5-dimethanol, 9CI

CAS Registry Number: 58383-35-0

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: $[\alpha]_D^{18} +11$ (c, 2 in MeOH)

>> **Derivative:** 1,2:3,4-Dibenzylidene

Synonym(s): 1,2:3,4-Di-*O*-benzylidene-D-threitol

Molecular Formula: C₁₈H₁₈O₄

Molecular Weight: 298.338

Accurate Mass: 298.12051

Percentage Composition: C 72.47%; H 6.08%; O 21.45%

Melting Point: Mp 231-234°

Optical Rotation: $[\alpha]_D^{25} -79.3$ (c, 0.64 in CHCl₃)

>> **Derivative:** 1-Benzyl, 2,3-*O*-isopropylidene

Synonym(s): 2,2-Dimethyl-5[(phenylmethoxy)methyl]-1,3-dioxolane-4-methanol, 9CI. 1-*O*-Benzyl-2,3-*O*-isopropylidene-D-threitol

CAS Registry Number: 78469-77-9

Molecular Formula: C₁₄H₂₀O₄

Molecular Weight: 252.31

Accurate Mass: 252.13616

Percentage Composition: C 66.65%; H 7.99%; O 25.36%

Physical Description: Syrup

Optical Rotation: $[\alpha]_D -8.2$ (c, 1.13 in CHCl₃)

>> **Derivative:** 1,4-Dibenzyl

Synonym(s): 1,4-Di-*O*-benzyl-D-threitol

CAS Registry Number: 91604-41-0

Molecular Formula: C₁₈H₂₂O₄

Molecular Weight: 302.369

Accurate Mass: 302.15181

Percentage Composition: C 71.50%; H 7.33%; O 21.17%

Use/Importance: Chiral synthon

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 55-57°

Optical Rotation: $[\alpha]_D^{20} +6$ (c, 5 in CHCl₃)

Aldrich: 36546-7

Fluka: 33840