CAS Registry Number: 51064-65-4

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 89-91°
Optical Rotation: $[\alpha]_D^{20}$+12.1 (c, 8.8 in $CHCl_3$)
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: $C_{11}H_{14}O_4$
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: $[\alpha]_D^{18}$+11 (c, 2 in MeOH)

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

Molecular Formula: $C_{18}H_{18}O_4$
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 $CHCl_3$)

>>**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: $C_{14}H_{20}O_4$
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 $CHCl_3$)

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

CAS Registry Number: 91604-41-0

Molecular Formula: $C_{18}H_{22}O_4$
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. (Et_2O/petrol)
Melting Point: Mp 55-57°
Optical Rotation: $[\alpha]_D^{20}$+6 (c, 5 in $CHCl_3$)
Aldrich: 36546-7
Fluka: 33840