>>**Entry Name: 3,3'-Thiobispropanol,** 9CI
Synonym(s): 3,3'-Thiodipropanol. Bis(3-hydroxypropyl) sulfide. 3,3-Dihydroxydipropyl sulfide. 4-Thia-1,7-heptanediol

CAS Registry Number: 10595-09-2
Related CAS Registry Numbers(s): 101810-61-1 102608-56-0 122560-18-3
$HOCH_2CH_2CH_2SCH_2CH_2CH_2OH$

Molecular Formula: $C_6H_{14}O_2S$
Molecular Weight: 150.241
Accurate Mass: 150.07145
Percentage Composition: C 47.97%; H 9.39%; O 21.30%; S 21.34%
Physical Description: Liq.
Boiling Point: Bp_1 134-138°. $Bp_{0.5}$ 140-142°
Density: d 1.09
Refractive Index: n_D^{20} 1.5100

Aldrich: 20534-6

>>**Derivative:** Bis(phenylurethane)

Physical Description: Needles (C_6H_6)
Melting Point: Mp 122-123°

>>**Derivative:** Di-Ac

Molecular Formula: $C_{10}H_{18}O_4S$
Molecular Weight: 234.316
Accurate Mass: 234.09258
Percentage Composition: C 51.26%; H 7.74%; O 27.31%; S 13.68%
Boiling Point: $Bp_{0.6}$ 129-134°

>>**Derivative:** Di-Ac, *S*,S-dioxide

Molecular Formula: $C_{10}H_{18}O_6S$
Molecular Weight: 266.315
Accurate Mass: 266.08241
Percentage Composition: C 45.10%; H 6.81%; O 36.05%; S 12.04%
Physical Description: Cryst. (C_6H_6/petrol)
Melting Point: Mp 53-55°

>>**Derivative:** Bis(methanesulfonyl)

CAS Registry Number: 75395-99-2
Molecular Formula: $C_8H_{18}O_6S$
Molecular Weight: 242.293
Accurate Mass: 242.08241
Percentage Composition: C 39.66%; H 7.49%; O 39.62%; S 13.23%
Physical Description: Cryst. (CH_2Cl_2/pentane)
Melting Point: Mp 42-43.5°

>>**Derivative:** Bis(4-methylbenzenesulfonyl)

CAS Registry Number: 101810-60-0
Molecular Formula: $C_{20}H_{26}O_6S_3$
Molecular Weight: 458.62
Accurate Mass: 458.08915
Percentage Composition: C 52.38%; H 5.71%; O 20.93%; S 20.98%
Physical Description: Cryst.
Melting Point: Mp 64-66°

References:

McGinnis, N.A. *et al.*, *J.C.S.*, 1941, 406, *(synth, di-Ac derivs)*
Searles, S. *et al.*, *J.A.C.S.*, 1951, **73**, 4515, *(synth)*
Kyba, E.P. *et al.*, *J.A.C.S.*, 1980, **102**, 7012-7014, *(synth, bismethanesulfonyl)*
Lange, S.J. *et al.*, *Tetrahedron*, 1995, **51**, 8175-8188, *(bis-4-methylbenzenesulfonyl)*
Loeb, S.J. *et al.*, *Can. J. Chem.*, 1996, **74**, 1377-1390, *(synth, pmr, cmr)*