



>>Entry Name: ***S,S'*-Bis(2-hydroxyethyl)-1,2-ethanedithiol**

Synonym(s): 2,2'-[1,2-Ethanediyldis(thio)]bisethanol, 9CI. 2,2'-(Ethylenedithio)diethanol, 8CI. 3,6-Dithia-1,8-octanediol. 1,2-Bis(2-hydroxyethylthio)ethane

CAS Registry Number: 5244-34-8

HOCH₂CH₂SCH₂CH₂SCH₂CH₂OH

Molecular Formula: C₆H₁₄O₂S₂

Molecular Weight: 182.307

Accurate Mass: 182.04352

Percentage Composition: C 39.53%; H 7.74%; O 17.55%; S 35.18%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 64° (58-60°)

Boiling Point: Bp₂ 100°

Aldrich: 23533-4

Fluka: 62150

Sigma: D5295

>>Derivative: *S,S'*-Dioxide

Synonym(s): 2,2'-[1,2-Ethanediyldis(sulfinyl)]bisethanol, 9CI

CAS Registry Number: 7665-53-4

Molecular Formula: C₆H₁₄O₄S₂

Molecular Weight: 214.306

Accurate Mass: 214.03335

Percentage Composition: C 33.63%; H 6.58%; O 29.86%; S 29.93%

Other Data: No phys. props. reported

>>Derivative: *S,S,S',S'*-Tetraoxide

Molecular Formula: C₆H₁₄O₆S₂

Molecular Weight: 246.305

Accurate Mass: 246.02318

Percentage Composition: C 29.26%; H 5.73%; O 38.97%; S 26.04%

Melting Point: Mp 115-116°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 443C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 275D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 361A, (*ir*)

Walti, D. *et al.*, *J.C.S.*, 1962, 3955, (*synth*)

Ger. Pat., 1980, 3 002 878; *CA*, 1981, **94**, 46780y, (*oxide*)

Wolf, R.E. *et al.*, *J.A.C.S.*, 1987, **109**, 4328, (*synth*)