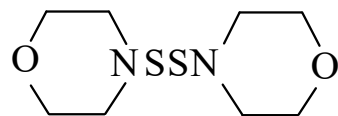




>>Entry Name: 4,4'-Dithiodimorpholine, 8CI

Synonym(s): 4,4'-Dithiobis[morpholine], 9CI. Morpholine *N,N'*-disulfide. Dimorpholine *N,N'*-disulfide. Accel R. DTDM. Vanax A



CAS Registry Number: 103-34-4

Molecular Formula: C<sub>8</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>

Molecular Weight: 236.359

Accurate Mass: 236.065318

Percentage Composition: C 40.65%; H 6.82%; N 11.85%; O 13.54%; S 27.13%

Use/Importance: Fungicide. Also used as a staining protector in the vulcanisation of rubber and as a thionitroxyl reagent

Physical Description: Cryst.

Melting Point: Mp 124-125°

Hazard & Toxicity: LD<sub>50</sub> (mus, orl) 1660 mg/kg

Rare Chemicals Library: S36131-3

#### References:

Blake, E.S., *J.A.C.S.*, 1943, **65**, 1267, (*synth*)

Potts, K.T. *et al.*, *Rubber Chem. Technol.*, 1972, **45**, 160, (*ms*)

Son, P.N. *et al.*, *J. Appl. Polym. Sci.*, 1977, **21**, 1733, (*use*)

Benitez, F.M. *et al.*, *J.O.C.*, 1978, **43**, 2917, (*use*)

Whitaker, A., *Z. Kristallogr., Kristallgeom., Kristallphys., Kristallchem.*, 1979, **148**, 45, (*cryst struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BKU500