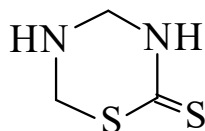




>>Entry Name: Tetrahydro-2H-1,3,5-thiadiazine-2-thione, 9CI

Synonym(s): Formocarbothialdine. Fennosan B100. Nefusan. Basamid



CAS Registry Number: 6995-80-8

Molecular Formula: C₃H₆N₂S₂

Molecular Weight: 134.226

Accurate Mass: 133.997238

Percentage Composition: C 26.85%; H 4.51%; N 20.87%; S 47.78%

>>Derivative: 3,5-*N*-Di-Me

Synonym(s): Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione. Dimethylformocarbothialdine. Fennosan B-100. **Dazomet**, BSI, ISO, JMAF, WSSA. DMTT. Thiazone. Salvo. Mylone. Basamid. Tiazon

CAS Registry Number: 533-74-4

Molecular Formula: C₅H₁₀N₂S₂

Molecular Weight: 162.279

Accurate Mass: 162.028538

Percentage Composition: C 37.01%; H 6.21%; N 17.26%; S 39.52%

Biological Use/Importance: Industrial microbicide and antifouling agent, soil fumigant

Physical Description: Cryst. (Me₂CO/hexane)

Melting Point: Mp 106°

Hazard & Toxicity: Skin and eye irritant. Skin sensitizer. LD₅₀ (rat, orl) 363 mg/kg

Rare Chemicals Library: S39638-9

>>Derivative: 3,5-*N*-Di-Ph

CAS Registry Number: 14318-36-6

Molecular Formula: C₁₅H₁₄N₂S₂

Molecular Weight: 286.421

Accurate Mass: 286.059838

Percentage Composition: C 62.90%; H 4.93%; N 9.78%; S 22.39%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 178°

Rare Chemicals Library: S54575-9

>>Derivative: *N,N'*-Dibenzyl

References:

- Ainley, A.D. *et al.*, *J.C.S.*, 1944, 147, (*synth*)
Shah, I.D. *et al.*, *J. Indian Chem. Soc.*, 1964, **41**, No. 3810, (*synth*)
Talukdar, P.B., *J. Indian Chem. Soc.*, 1967, **44**, 17, (*synth, uv, ir*)
Czech. Pat., 1972, 137 838; *CA*, **76**, 34315
Czech. Pat., 1972, 140 982; *CA*, **77**, 19687
Tate, R.L. *et al.*, *Soil Sci. Soc. Am. Proc.*, 1974, **118**, 317, (*metab*)
Ried, W. *et al.*, *Annalen*, 1977, 1661, (*Di-Ph, synth, ir, pmr, bibl*)
Pesticide Manual, 9th edn., 1991, No. 3810
Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A114
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DSB200