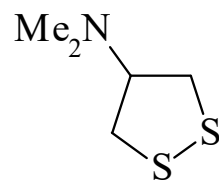




>>Entry Name: 4-Dimethylamino-1,2-dithiolane

Synonym(s): *N,N*-Dimethyl-1,2-dithiolan-4-amine, 9Cl, 8Cl. Nereistoxin. Cartab. Padan†



CAS Registry Number: 1631-58-9

Type of Compound Code(s): XA4850 VA2950

Molecular Formula: C₅H₁₁NS₂

Molecular Weight: 149.281

Accurate Mass: 149.033289

Percentage Composition: C 40.23%; H 7.43%; N 9.38%; S 42.96%

Biological Source: Isol. from the marine annelid worms *Lumbriconereis heteropoda* and *Lumbriconereis brevicirra*

Biological Use/Importance: Neurotoxin; shows unusual toxicity against insects, has been prod. synthetically

Physical Description: Liq.

Development Status: Marketed in Japan

Boiling Point: Bp 212-213°

UV: [neutral] λ_{max} 330 () (MeOH) (Berdy)

>>Derivative: Oxalate (1:1)

CAS Registry Number: 1631-52-3

Melting Point: Mp 173-174 dec.°

>>Derivative: Picrate

Physical Description: Needles (EtOH)

Melting Point: Mp 169°

References:

- Hashimoto, Y. *et al.*, *Ann. N.Y. Acad. Sci.*, 1960, **90**, 669, (*isol*)
Okaichi, T. *et al.*, *Agric. Biol. Chem.*, 1962, **26**, 224, (*struct, pmr, pharmacol*)
Konishi, K., *Agric. Biol. Chem.*, 1970, **34**, 926; 935; 1549, (*synth, pmr, uv*)
Hashimoto, Y. *et al.*, *Food-Drugs Sea, Proc. Conf.*, 3rd, 1972, 129, (*rev, bibl*)
Satelle, D.B., *Crop Prot. Agents Their Biol. Eval., Proc. Int. Conf.*, 1975, 421, (*pharmacol*)