



>>Entry Name: Thiodicarb, AMSIO, BSI, ISO

Synonym(s): Dimethyl *N,N'*-[thiobis[(methylimino)carbonyloxy]]bisethanimidothioate, 9CI. Larvin

CAS Registry Number: 59669-26-0

Related CAS Registry Numbers(s): 65154-62-3

$\text{H}_3\text{CC}(\text{SMe})=\text{NOOCNMe}-\text{NMeCOON}=\text{C}(\text{SMe})\text{CH}_3$

Molecular Formula: $\text{C}_{10}\text{H}_{18}\text{N}_4\text{O}_4\text{S}_2$

Molecular Weight: 322.409

Accurate Mass: 322.076946

Percentage Composition: C 37.25%; H 5.63%; N 17.38%; O 19.85%; S 19.89%

Use/Importance: Insecticide, cholinesterase inhibitor

Physical Description: Pale tan cryst.

Melting Point: Mp 173-174°

Hazard & Toxicity: LD₅₀ (rat, orl) 66 mg/kg

References:

Ger. Pat., 1977, 2 654 331; *CA*, **87**, 101990z, (*synth, use*)

Sousa, A.A. *et al.*, *J. Econ. Entomol.*, 1977, **70**, 803, (*activity*)

D'Silva, T.D.J., *Spec. Publ. - R. Soc. Chem.*, 1985, **53**, 205, (*rev*)

Allen, J.L. *et al.*, *Meded. Fac. Landbouwwet., Rijksuniv. Gent*, 1986, **51**, 1167, (*use*)

Pesticide Manual, 9th edn., 1991, No. 11620

Ammon, H.L. *et al.*, *Acta Cryst. C*, 1995, **51**, 1619, (*cryst struct*)

Handbook of Pesticide Toxicology, (Eds. Hayes, W.J. *et al*), Academic Press, 1991, 1175