



>>Entry Name: Di-2-propenyl trisulfide, 9CI

ENTRY UNDER REVIEW

Synonym(s): Allyl trisulfide, 8CI. Diallyl trisulfide. Allitridin

CAS Registry Number: 2050-87-5

Related CAS Registry Numbers(s): 72869-75-1

Type of Compound Code(s): XA1650 XA1645 XA2290 XA2620 XA5970

$\text{H}_2\text{C}=\text{CHCH}_2\text{-S-S-S-CH}_2\text{CH}=\text{CH}_2$

Molecular Formula: $\text{C}_6\text{H}_{10}\text{S}_3$

Molecular Weight: 178.343

Accurate Mass: 177.99446

Percentage Composition: C 40.41%; H 5.65%; S 53.94%

Source/Synthesis: Volatile component from *Allium sativum*, *Allium victorialis* and other commercial garlies

Use/Importance: Human platelet aggregation inhibitor; Ca antagonist; antihypercholesterolaemic, antihypertensive agent. Possesses insecticidal props.

Boiling Point: Bp 140°. Bp_{0.07} 66-67°

Density: d^{15}_4 1.085

Hazard & Toxicity: LD₅₀ (mus, orl) 100 mg/kg

References:

Milligan, B. *et al.*, *J.C.S.*, 1961, 4850; 1963, 3608, (*synth*)

Morel, G. *et al.*, *Synthesis*, 1980, 918, (*synth*)

Banerji, A. *et al.*, *Tet. Lett.*, 1980, 3003, (*synth*)

Nishimura, H. *et al.*, *J. Agric. Food Chem.*, 1988, **36**, 563, (*isol*)

Yu, T.H. *et al.*, *J. Agric. Food Chem.*, 1989, **37**, 725, (*isol*)

Devlin, M.T. *et al.*, *J. Mol. Struct.*, 1990, **238**, 119, (*Raman, conformn*)

Lawson, L.D. *et al.*, *Planta Med.*, 1991, **57**, 363, (*isol, hplc*)

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