



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

ENTRY UNDER REVIEW

Synonym(s): Diallyl disulfide. Allyl disulfide. **Garlicin**‡

CAS Registry Number: 2179-57-9

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

Type of Compound Code(s): VA0400

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

Molecular Formula: $\text{C}_6\text{H}_{10}\text{S}_2$

Molecular Weight: 146.277

Accurate Mass: 146.02239

Percentage Composition: C 49.27%; H 6.89%; S 43.84%

Biological Source: Principal constituent of oil of garlic. Isol. from garlic oil (*Allium sativum*), also *Allium cepa* and *Allium ursinum* and seeds of *Descurainia sophia*

Use/Importance: Insecticidal

Boiling Point: Bp₁₆ 78-80°

Aldrich: W20280-0

Fluka: 32621

>>Derivative: S-Oxide

see Allicin, [HDZ34-Z](#)

References:

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Twiss, D.F., *J.C.S.*, 1914, **105**, 36, (*synth*)
Milligan, B. *et al.*, *J.C.S.*, 1963, 3608, (*glc*)
Schultz, O.E. *et al.*, *Pharmazie*, 1965, **20**, 441, (*isol*)
Martin, D.J. *et al.*, *Anal. Chem.*, 1966, **38**, 1604, (*pmr*)
Amonkar, S.V. *et al.*, *Science (Washington, D.C.)*, 1971, **174**, 1343
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