

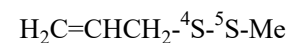


**>>Entry Name: Methyl 2-propenyl disulfide**

**Synonym(s):** Allyl methyl disulfide, 4,5-Dithia-1-hexene

**CAS Registry Number:** 2179-58-0

**Related CAS Registry Numbers(s):** 41865-22-9



**Molecular Formula:** C<sub>4</sub>H<sub>8</sub>S<sub>2</sub>

**Molecular Weight:** 120.239

**Accurate Mass:** 120.00674

**Percentage Composition:** C 39.96%; H 6.71%; S 53.34%

**Biological Source:** Constit. of the essential oils of *Allium* spp.

**Physical Description:** Oil

**Aldrich:** W31270-3

**>>Derivative: 4-Oxide**

**Synonym(s):** S-Methyl 2-propene-1-sulfinothioate

**CAS Registry Number:** 3736-98-9

**Molecular Formula:** C<sub>4</sub>H<sub>8</sub>OS<sub>2</sub>

**Molecular Weight:** 136.239

**Accurate Mass:** 136.001655

**Percentage Composition:** C 35.26%; H 5.92%; O 11.74%; S 47.07%

**Biological Source:** Constit. of *Allium* spp.

**>>Derivative: 5-Oxide**

**Synonym(s):** S-2-Propenyl methanesulfinothioate. Allyl methanethiosulfinate

**CAS Registry Number:** 104228-49-1

**Molecular Formula:** C<sub>4</sub>H<sub>8</sub>OS<sub>2</sub>

**Molecular Weight:** 136.239

**Accurate Mass:** 136.001655

**Percentage Composition:** C 35.26%; H 5.92%; O 11.74%; S 47.07%

**Biological Source:** Constit. of *Allium* spp.

**Physical Description:** Oil

**References:**

Armitage, D.A. *et al.*, *J.C.S. Perkin 1*, 1972, 680, (*synth*)

Baechler, R.D. *et al.*, *Tet. Lett.*, 1978, 105, (*synth*)

Block, E. *et al.*, *J.A.C.S.*, 1986, **108**, 7045-7055, (*deriv, synth, pmr*)

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

Block, E. *et al.*, *Pure Appl. Chem.*, 1993, **65**, 625-632, (*occur*)