



>>Entry Name: Methyl 1-propenyl disulfide

Synonym(s): 4,5-Dithia-2-hexene

CAS Registry Number: 5905-47-5

$\text{H}_3\text{CCH}=\text{CH}-^4\text{S}-^5\text{S}-\text{Me}$

Molecular Formula: $\text{C}_4\text{H}_8\text{S}_2$

Molecular Weight: 120.239

Accurate Mass: 120.00674

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

>>Variant: (E)-form

CAS Registry Number: 23838-19-9

Molecular Formula: $\text{C}_4\text{H}_8\text{S}_2$

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

Boiling Point: $\text{Bp}_{17} 55^\circ$

>>Derivative: 4-Oxide

Synonym(s): S-Methyl 1-propenesulfinothioate

CAS Registry Number: 134568-43-7

Extra CAS Registry Numbers(s): 121955-53-1

Molecular Formula: $\text{C}_4\text{H}_8\text{OS}_2$

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-1-Propenyl methanesulfinothioate

CAS Registry Number: 119052-99-2

Molecular Formula: $\text{C}_4\text{H}_8\text{OS}_2$

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 cepa*, *Allium sativum* and other *Allium* spp.

>>Variant: (Z)-form

CAS Registry Number: 23838-18-8

Molecular Formula: $\text{C}_4\text{H}_8\text{S}_2$

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: Pale yellow oil

Boiling Point: $\text{Bp}_{30} 69-70^\circ$

>>Derivative: 4-Oxide

CAS Registry Number: 136516-41-1

Molecular Formula: $\text{C}_4\text{H}_8\text{OS}_2$

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