# (E)-1-Allyl-2-(prop-1-en-1-yl)disulfane

**Inchi:** InChI=1S/C6H10S2/c1-3-5-7-8-6-4-2/h3-4,6H,1,5H2,2H3/b6-4+
**InchiKey:** KBXOGESWPIVMNJ-GQCTYLIASA-N
**Formula:** C6H10S2
**SMILES:** C=CCSSC=CC
**Mol. weight [g/mol]:** 146.27
**CAS:** 122156-02-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 233.94 | kJ/mol | Joback Method |
| hf | 159.22 | kJ/mol | Joback Method |
| hfus | 18.48 | kJ/mol | Joback Method |
| hvap | 41.87 | kJ/mol | Joback Method |
| log10ws | -3.29 | | Crippen Method |
| logp | 3.087 | | Crippen Method |
| mcvol | 119.500 | ml/mol | McGowan Method |
| pc | 3602.88 | kPa | Joback Method |
| rinpol | 1103.40 | | NIST Webbook |
| rinpol | 1103.40 | | NIST Webbook |
| tb | 475.08 | K | Joback Method |
| tc | 703.14 | K | Joback Method |
| tf | 219.34 | K | Joback Method |
| vc | 0.441 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 219.99 | J/mol×K | 475.08 | Joback Method |
| cpg | 230.97 | J/mol×K | 513.09 | Joback Method |
| cpg | 241.30 | J/mol×K | 551.10 | Joback Method |
| cpg | 251.02 | J/mol×K | 589.11 | Joback Method |
| cpg | 260.14 | J/mol×K | 627.12 | Joback Method |
| cpg | 268.70 | J/mol×K | 665.13 | Joback Method |
| cpg | 276.70 | J/mol×K | 703.14 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C122156029&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |