

6-Ethyl-4,5,7-trithia-2,8-decadiene

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|-----------------------------|---|
| Inchi: | InChI=1S/C9H16S3/c1-4-7-10-9(6-3)12-11-8-5-2/h4-5,7-9H,6H2,1-3H3/b7-4+,8-5+ |
| InchiKey: | YFTPQUIYROJDX-NSLJXJERSA-N |
| Formula: | C9H16S3 |
| SMILES: | CC=CSSC(CC)SC=CC |
| Mol. weight [g/mol]: | 220.42 |
| CAS: | 126876-28-6 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 282.26 | kJ/mol | Joback Method |
| hf | 125.68 | kJ/mol | Joback Method |
| hfus | 28.34 | kJ/mol | Joback Method |
| hvap | 55.61 | kJ/mol | Joback Method |
| log10ws | -5.54 | | Crippen Method |
| logp | 4.904 | | Crippen Method |
| mcvol | 178.120 | ml/mol | McGowan Method |
| pc | 2715.50 | kPa | Joback Method |
| rinpol | 1584.00 | | NIST Webbook |
| rinpol | 1602.00 | | NIST Webbook |
| rinpol | 1573.00 | | NIST Webbook |
| rinpol | 1584.00 | | NIST Webbook |
| rinpol | 1603.10 | | NIST Webbook |
| rinpol | 1573.00 | | NIST Webbook |
| rinpol | 1547.60 | | NIST Webbook |
| rinpol | 1584.00 | | NIST Webbook |
| rinpol | 1547.60 | | NIST Webbook |
| rinpol | 1603.10 | | NIST Webbook |
| tb | 619.54 | K | Joback Method |
| tc | 865.36 | K | Joback Method |
| tf | 269.23 | K | Joback Method |
| vc | 0.655 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 401.05 | J/mol×K | 619.54 | Joback Method |
| cpg | 415.78 | J/mol×K | 660.51 | Joback Method |
| cpg | 429.49 | J/mol×K | 701.48 | Joback Method |
| cpg | 442.22 | J/mol×K | 742.45 | Joback Method |
| cpg | 454.03 | J/mol×K | 783.42 | Joback Method |
| cpg | 464.95 | J/mol×K | 824.39 | Joback Method |
| cpg | 475.03 | J/mol×K | 865.36 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C126876286&Units=SI |

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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | 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 |

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