

(Z)-6-(pent-2-enyl)-tetrahydropyran-2-thione

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|-----------------------------|--|
| Inchi: | InChI=1S/C10H16OS/c1-2-3-4-6-9-7-5-8-10(12)11-9/h3-4,9H,2,5-8H2,1H3/b4-3-/t9-/m0/s |
| InchiKey: | SYWBJAVDLPEQAB-TYRPZCRBSA-N |
| Formula: | C10H16OS |
| SMILES: | CCC=CCC1CCCC(=S)O1 |
| Mol. weight [g/mol]: | 184.30 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 142.72 | kJ/mol | Joback Method |
| hf | -95.09 | kJ/mol | Joback Method |
| hfus | 27.71 | kJ/mol | Joback Method |
| hvap | 50.23 | kJ/mol | Joback Method |
| log10ws | -3.81 | | Crippen Method |
| logp | 3.239 | | Crippen Method |
| mvol | 154.520 | ml/mol | McGowan Method |
| pc | 2871.95 | kPa | Joback Method |
| ripol | 1591.00 | | NIST Webbook |
| ripol | 2431.00 | | NIST Webbook |
| tb | 551.50 | K | Joback Method |
| tc | 776.61 | K | Joback Method |
| tf | 295.00 | K | Joback Method |
| vc | 0.568 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 360.27 | J/mol×K | 551.50 | Joback Method |
| cpg | 376.76 | J/mol×K | 589.02 | Joback Method |
| cpg | 392.17 | J/mol×K | 626.54 | Joback Method |
| cpg | 406.56 | J/mol×K | 664.05 | Joback Method |
| cpg | 420.00 | J/mol×K | 701.57 | Joback Method |
| cpg | 432.55 | J/mol×K | 739.09 | Joback Method |
| cpg | 444.29 | J/mol×K | 776.61 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R422634&Units=SI |
| 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 |

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 |
| rinpola: | Non-polar retention indices |
| ripola: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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