

pentyl 3-(methylthio)propanoate

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| Inchi: | InChI=1S/C9H18O2S/c1-3-4-5-7-11-9(10)6-8-12-2/h3-8H2,1-2H3 |
| InchiKey: | VSCXQPTWKZWPQB-UHFFFAOYSA-N |
| Formula: | C9H18O2S |
| SMILES: | CCCCCOC(=O)CCSC |
| Mol. weight [g/mol]: | 190.30 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -175.90 | kJ/mol | Joback Method |
| hf | -432.02 | kJ/mol | Joback Method |
| hfus | 25.98 | kJ/mol | Joback Method |
| hvap | 51.60 | kJ/mol | Joback Method |
| log10ws | -2.34 | | Crippen Method |
| logp | 2.473 | | Crippen Method |
| mcvol | 161.460 | ml/mol | McGowan Method |
| pc | 2453.17 | kPa | Joback Method |
| ripol | 1858.00 | | NIST Webbook |
| tb | 550.39 | K | Joback Method |
| tc | 742.14 | K | Joback Method |
| tf | 297.75 | K | Joback Method |
| vc | 0.618 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 377.69 | J/mol×K | 550.39 | Joback Method |
| cpg | 391.47 | J/mol×K | 582.35 | Joback Method |
| cpg | 404.66 | J/mol×K | 614.31 | Joback Method |
| cpg | 417.26 | J/mol×K | 646.27 | Joback Method |
| cpg | 429.28 | J/mol×K | 678.23 | Joback Method |
| cpg | 440.71 | J/mol×K | 710.19 | Joback Method |
| cpg | 451.55 | J/mol×K | 742.14 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| 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=U122032&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 |
| hvap: | 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 |
| riPOL: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.chemeo.com/cid/97-137-3/pentyl-3-methylthio-propanoate.pdf>

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