

2,3-dimethyl-4-thianonane

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| Inchi: | InChI=1S/C10H22S/c1-5-6-7-8-11-10(4)9(2)3/h9-10H,5-8H2,1-4H3 |
| InchiKey: | SLWLCOPCNCAVOJ-UHFFFAOYSA-N |
| Formula: | C10H22S |
| SMILES: | CCCCCSC(C)C(C)C |
| Mol. weight [g/mol]: | 174.35 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 61.56 | kJ/mol | Joback Method |
| hf | -218.42 | kJ/mol | Joback Method |
| hfus | 18.74 | kJ/mol | Joback Method |
| hvap | 43.89 | kJ/mol | Joback Method |
| log10ws | -3.76 | | Crippen Method |
| logp | 3.954 | | Crippen Method |
| mcvol | 168.110 | ml/mol | McGowan Method |
| pc | 2173.43 | kPa | Joback Method |
| rinpol | 1204.00 | | NIST Webbook |
| rinpol | 1204.00 | | NIST Webbook |
| rinpol | 1204.00 | | NIST Webbook |
| rinpol | 1204.00 | | NIST Webbook |
| tb | 496.10 | K | Joback Method |
| tc | 685.89 | K | Joback Method |
| tf | 206.86 | K | Joback Method |
| vc | 0.637 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 376.28 | J/molxK | 496.10 | Joback Method |
| cpg | 392.87 | J/molxK | 527.73 | Joback Method |
| cpg | 408.74 | J/molxK | 559.36 | Joback Method |
| cpg | 423.89 | J/molxK | 591.00 | Joback Method |
| cpg | 438.36 | J/molxK | 622.63 | Joback Method |
| cpg | 452.14 | J/molxK | 654.26 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R155527&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 |
| 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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