

cis-5-butyl-4-methyldihydrofuran-2(3H)-thione

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|-----------------------------|--|
| Inchi: | InChI=1S/C9H16OS/c1-3-4-5-8-7(2)6-9(11)10-8/h7-8H,3-6H2,1-2H3/t7-,8-/m1/s1 |
| InchiKey: | IBXKFMLVUWMVDT-HTQZYQBOSA-N |
| Formula: | C9H16OS |
| SMILES: | CCCCC1OC(=S)CC1C |
| Mol. weight [g/mol]: | 172.29 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 58.47 | kJ/mol | Joback Method |
| hf | -205.85 | kJ/mol | Joback Method |
| hfus | 28.08 | kJ/mol | Joback Method |
| hvap | 47.56 | kJ/mol | Joback Method |
| log10ws | -3.29 | | Crippen Method |
| logp | 2.929 | | Crippen Method |
| mvol | 144.730 | ml/mol | McGowan Method |
| pc | 2829.33 | kPa | Joback Method |
| ripol | 1430.00 | | NIST Webbook |
| ripol | 2148.00 | | NIST Webbook |
| tb | 515.52 | K | Joback Method |
| tc | 726.34 | K | Joback Method |
| tf | 288.09 | K | Joback Method |
| vc | 0.538 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 332.76 | J/mol×K | 515.52 | Joback Method |
| cpg | 348.43 | J/mol×K | 550.66 | Joback Method |
| cpg | 363.22 | J/mol×K | 585.79 | Joback Method |
| cpg | 377.16 | J/mol×K | 620.93 | Joback Method |
| cpg | 390.30 | J/mol×K | 656.07 | Joback Method |
| cpg | 402.68 | J/mol×K | 691.21 | Joback Method |
| cpg | 414.33 | J/mol×K | 726.34 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=R422585&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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

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