

N-Benzyl O-methyl thiocarbamate

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|-----------------------------|---|
| Inchi: | InChI=1S/C9H11NOS/c1-11-9(12)10-7-8-5-3-2-4-6-8/h2-6H,7H2,1H3,(H,10,12) |
| InchiKey: | HLVIWUVHOXMUET-UHFFFAOYSA-N |
| Formula: | C9H11NOS |
| SMILES: | COC(=S)NCc1ccccc1 |
| Mol. weight [g/mol]: | 181.25 |
| CAS: | 65263-72-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 238.76 | kJ/mol | Joback Method |
| hf | 75.19 | kJ/mol | Joback Method |
| hfus | 24.00 | kJ/mol | Joback Method |
| hvap | 53.48 | kJ/mol | Joback Method |
| log10ws | -2.81 | | Crippen Method |
| logp | 1.708 | | Crippen Method |
| mcvol | 141.810 | ml/mol | McGowan Method |
| pc | 3615.89 | kPa | Joback Method |
| rinpol | 1608.00 | | NIST Webbook |
| ripol | 2766.00 | | NIST Webbook |
| tb | 574.63 | K | Joback Method |
| tc | 807.48 | K | Joback Method |
| tf | 326.77 | K | Joback Method |
| vc | 0.520 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 316.37 | J/molxK | 574.63 | Joback Method |
| cpg | 329.07 | J/molxK | 613.44 | Joback Method |
| cpg | 340.85 | J/molxK | 652.25 | Joback Method |
| cpg | 351.75 | J/molxK | 691.05 | Joback Method |
| cpg | 361.86 | J/molxK | 729.86 | Joback Method |
| cpg | 371.24 | J/molxK | 768.67 | Joback Method |
| cpg | 379.94 | J/molxK | 807.48 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C65263721&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

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|------------------|---|
| 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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