

2-[Hexylthio]ethanal

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|----------------------|--|
| Inchi: | InChI=1S/C8H16OS/c1-2-3-4-5-7-10-8-6-9/h6H,2-5,7-8H2,1H3 |
| InchiKey: | FWYYDAZHINHUBD-UHFFFAOYSA-N |
| Formula: | C8H16OS |
| SMILES: | CCCCCCSCC=O |
| Mol. weight [g/mol]: | 160.28 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -49.92 | kJ/mol | Joback Method |
| hf | -252.16 | kJ/mol | Joback Method |
| hfus | 22.89 | kJ/mol | Joback Method |
| hvap | 46.94 | kJ/mol | Joback Method |
| log10ws | -2.34 | | Crippen Method |
| logp | 2.499 | | Crippen Method |
| mvol | 141.500 | ml/mol | McGowan Method |
| pc | 2784.72 | kPa | Joback Method |
| ripol | 1745.00 | | NIST Webbook |
| ripol | 1745.00 | | NIST Webbook |
| tb | 499.88 | K | Joback Method |
| tc | 690.77 | K | Joback Method |
| tf | 256.32 | K | Joback Method |
| vc | 0.554 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 308.66 | J/mol×K | 499.88 | Joback Method |
| cpg | 321.40 | J/mol×K | 531.69 | Joback Method |
| cpg | 333.57 | J/mol×K | 563.51 | Joback Method |
| cpg | 345.20 | J/mol×K | 595.32 | Joback Method |
| cpg | 356.28 | J/mol×K | 627.14 | Joback Method |
| cpg | 366.83 | J/mol×K | 658.95 | Joback Method |
| cpg | 376.86 | J/mol×K | 690.77 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R402125&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 |
| hvp: | 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 |
| ripl: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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