

2-[But-2-enylthio]ethanal

Inchi: InChI=1S/C6H10OS/c1-2-3-5-8-6-4-7/h2-4H,5-6H2,1H3/b3-2+
InchiKey: ONEQLHKTAJQBB-NSCUHMNNSA-N
Formula: C6H10OS
SMILES: CC=CCSCC=O
Mol. weight [g/mol]: 130.21

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 13.46 | kJ/mol | Joback Method |
| hf | -93.66 | kJ/mol | Joback Method |
| hfus | 17.92 | kJ/mol | Joback Method |
| hvap | 42.45 | kJ/mol | Joback Method |
| log10ws | -1.35 | | Crippen Method |
| logp | 1.495 | | Crippen Method |
| mcvol | 109.020 | ml/mol | McGowan Method |
| pc | 3668.65 | kPa | Joback Method |
| ripol | 1605.00 | | NIST Webbook |
| ripol | 1605.00 | | NIST Webbook |
| tb | 458.28 | K | Joback Method |
| tc | 663.42 | K | Joback Method |
| tf | 228.70 | K | Joback Method |
| vc | 0.422 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 208.39 | J/mol×K | 458.28 | Joback Method |
| cpg | 218.41 | J/mol×K | 492.47 | Joback Method |
| cpg | 227.90 | J/mol×K | 526.66 | Joback Method |
| cpg | 236.89 | J/mol×K | 560.85 | Joback Method |
| cpg | 245.40 | J/mol×K | 595.04 | Joback Method |
| cpg | 253.43 | J/mol×K | 629.23 | Joback Method |
| cpg | 261.02 | J/mol×K | 663.42 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R402081&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 |
| hvpap: | 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 |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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