

2-Chloroethyl-2-chloropropyl sulfide

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|-----------------------------|---|
| Inchi: | InChI=1S/C5H10Cl2S/c1-5(7)4-8-3-2-6/h5H,2-4H2,1H3 |
| InchiKey: | UXBWKLYRAKLSAF-UHFFFAOYSA-N |
| Formula: | C5H10Cl2S |
| SMILES: | CC(Cl)CSCCCI |
| Mol. weight [g/mol]: | 173.10 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -1.96 | kJ/mol | Joback Method |
| hf | -141.42 | kJ/mol | Joback Method |
| hfus | 17.71 | kJ/mol | Joback Method |
| hvap | 41.92 | kJ/mol | Joback Method |
| log10ws | -2.22 | | Crippen Method |
| logp | 2.586 | | Crippen Method |
| mcvol | 122.140 | ml/mol | McGowan Method |
| pc | 3276.53 | kPa | Joback Method |
| rinpol | 1223.00 | | NIST Webbook |
| rinpol | 1214.00 | | NIST Webbook |
| rinpol | 1214.00 | | NIST Webbook |
| tb | 457.00 | K | Joback Method |
| tc | 666.69 | K | Joback Method |
| tf | 225.35 | K | Joback Method |
| vc | 0.462 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 218.23 | J/molxK | 457.00 | Joback Method |
| cpg | 227.99 | J/molxK | 491.95 | Joback Method |
| cpg | 237.28 | J/molxK | 526.90 | Joback Method |
| cpg | 246.10 | J/molxK | 561.85 | Joback Method |
| cpg | 254.46 | J/molxK | 596.80 | Joback Method |
| cpg | 262.37 | J/molxK | 631.74 | Joback Method |
| cpg | 269.84 | J/molxK | 666.69 | 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=R422921&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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

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