# 5-ethyl-dihydrofuran-2(3H)-thione

**Inchi:** InChI=1S/C6H8OS/c1-2-5-3-4-6(8)7-5/h3H,2,4H2,1H3
**InchiKey:** ODFPGUSFUZIAFM-UHFFFAOYSA-N
**Formula:** C6H8OS
**SMILES:** CCC1=CCC(=S)O1
**Mol. weight [g/mol]:** 128.19

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 68.96 | kJ/mol | Joback Method |
| hf | -56.94 | kJ/mol | Joback Method |
| hfus | 19.01 | kJ/mol | Joback Method |
| hvap | 42.46 | kJ/mol | Joback Method |
| log10ws | -2.52 | | Crippen Method |
| logp | 2.028 | | Crippen Method |
| mcvol | 98.160 | ml/mol | McGowan Method |
| pc | 4414.96 | kPa | Joback Method |
| rinpol | 1167.00 | | NIST Webbook |
| ripol | 1919.00 | | NIST Webbook |
| tb | 460.36 | K | Joback Method |
| tc | 685.42 | K | Joback Method |
| tf | 276.04 | K | Joback Method |
| vc | 0.358 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 187.22 | J/mol×K | 460.36 | Joback Method |
| cpg | 197.20 | J/mol×K | 497.87 | Joback Method |
| cpg | 206.48 | J/mol×K | 535.38 | Joback Method |
| cpg | 215.10 | J/mol×K | 572.89 | Joback Method |
| cpg | 223.11 | J/mol×K | 610.40 | Joback Method |
| cpg | 230.57 | J/mol×K | 647.91 | Joback Method |
| cpg | 237.51 | J/mol×K | 685.42 | Joback Method |

# Sources

| | |
|---|---|
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **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=R422481&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 |
| **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 |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |