# Thiocyclohexane, 4-propylidene

**Inchi:** InChI=1S/C8H14S/c1-2-3-8-4-6-9-7-5-8/h3H,2,4-7H2,1H3
**InchiKey:** HPNXVYNVRLPFBY-UHFFFAOYSA-N
**Formula:** C8H14S
**SMILES:** CCC=C1CCSCC1
**Mol. weight [g/mol]:** 142.26

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 133.96 | kJ/mol | Joback Method |
| hf | -12.50 | kJ/mol | Joback Method |
| hfus | 11.22 | kJ/mol | Joback Method |
| hvap | 40.74 | kJ/mol | Joback Method |
| log10ws | -2.80 | | Crippen Method |
| logp | 2.850 | | Crippen Method |
| mcvol | 124.770 | ml/mol | McGowan Method |
| pc | 3360.64 | kPa | Joback Method |
| rinpol | 1134.00 | | NIST Webbook |
| ripol | 1385.00 | | NIST Webbook |
| tb | 461.13 | K | Joback Method |
| tc | 686.10 | K | Joback Method |
| tf | 285.35 | K | Joback Method |
| vc | 0.447 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 247.77 | J/mol×K | 461.13 | Joback Method |
| cpg | 263.78 | J/mol×K | 498.63 | Joback Method |
| cpg | 278.83 | J/mol×K | 536.12 | Joback Method |
| cpg | 292.97 | J/mol×K | 573.62 | Joback Method |
| cpg | 306.24 | J/mol×K | 611.11 | Joback Method |
| cpg | 318.68 | J/mol×K | 648.61 | Joback Method |
| cpg | 330.34 | J/mol×K | 686.10 | Joback Method |

# Sources

| | |
|---|---|
| **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=R384488&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |