# Cyclohexane, 1-(cyclohexylmethyl)-3-methyl-, cis-

**Inchi:** InChI=1S/C14H26/c1-12-6-5-9-14(10-12)11-13-7-3-2-4-8-13/h12-14H,2-11H2,1H3/t12-,1

**InchiKey:** XJVUTISPBZKZNB-GXTWGEPZSA-N

**Formula:** C14H26

**SMILES:** CC1CCCC(CC2CCCCC2)C1

**Mol. weight [g/mol]:** 194.36

**CAS:** 54823-96-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| chl | -8305.00 | kJ/mol | NIST Webbook |
| gf | 108.19 | kJ/mol | Joback Method |
| hf | -243.99 | kJ/mol | Joback Method |
| hfus | 16.76 | kJ/mol | Joback Method |
| hvap | 47.31 | kJ/mol | Joback Method |
| log10ws | -4.75 | | Crippen Method |
| logp | 4.783 | | Crippen Method |
| mcvol | 186.400 | ml/mol | McGowan Method |
| pc | 2094.58 | kPa | Joback Method |
| tb | 554.15 | K | Joback Method |
| tc | 777.71 | K | Joback Method |
| tf | 258.06 | K | Joback Method |
| vc | 0.684 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 490.28 | J/mol×K | 554.15 | Joback Method |
| cpg | 610.19 | J/mol×K | 740.45 | Joback Method |
| cpg | 589.27 | J/mol×K | 703.19 | Joback Method |
| cpg | 566.87 | J/mol×K | 665.93 | Joback Method |
| cpg | 542.93 | J/mol×K | 628.67 | Joback Method |
| cpg | 517.42 | J/mol×K | 591.41 | Joback Method |
| cpg | 629.67 | J/mol×K | 777.71 | Joback Method |
| dvisc | 0.0002391 | Pa×s | 554.15 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0003187 | Pa×s | 504.80 | Joback Method |
| dvisc | 0.0004522 | Pa×s | 455.45 | Joback Method |
| dvisc | 0.0006984 | Pa×s | 406.10 | Joback Method |
| dvisc | 0.0012166 | Pa×s | 356.76 | Joback Method |
| dvisc | 0.0025328 | Pa×s | 307.41 | Joback Method |
| dvisc | 0.0069798 | Pa×s | 258.06 | Joback Method |

# Sources

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|---|---|
| **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=C54823960&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

| | |
|---|---|
| **chl:** | Standard liquid enthalpy of combustion |
| **cpg:** | Ideal gas heat capacity |
| **dvisc:** | Dynamic viscosity |
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |