# Cyclopropane, 1-methyl-1-propyl

**Other names:** 1-methyl-1-propyl-cyclopropane
**Inchi:** InChI=1S/C7H14/c1-3-4-7(2)5-6-7/h3-6H2,1-2H3
**InchiKey:** LSFCLHNARNYBLB-UHFFFAOYSA-N
**Formula:** C7H14
**SMILES:** CCCC1(C)CC1
**Mol. weight [g/mol]:** 98.19

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 63.32 | kJ/mol | Joback Method |
| hf | -99.77 | kJ/mol | Joback Method |
| hfus | 5.72 | kJ/mol | Joback Method |
| hvap | 29.94 | kJ/mol | Joback Method |
| log10ws | -2.41 | | Crippen Method |
| logp | 2.587 | | Crippen Method |
| mcvol | 98.630 | ml/mol | McGowan Method |
| pc | 3399.94 | kPa | Joback Method |
| rinpol | 663.00 | | NIST Webbook |
| rinpol | 662.80 | | NIST Webbook |
| rinpol | 663.00 | | NIST Webbook |
| tb | 366.54 | K | Joback Method |
| tc | 552.93 | K | Joback Method |
| tf | 210.49 | K | Joback Method |
| vc | 0.383 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 177.76 | J/mol×K | 366.54 | Joback Method |
| cpg | 192.34 | J/mol×K | 397.60 | Joback Method |
| cpg | 205.86 | J/mol×K | 428.67 | Joback Method |
| cpg | 218.40 | J/mol×K | 459.73 | Joback Method |
| cpg | 230.05 | J/mol×K | 490.80 | Joback Method |
| cpg | 240.89 | J/mol×K | 521.86 | Joback Method |

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|---|---|---|---|---|
| cpg | 251.00 | J/mol×K | 552.93 | 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=R137232&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |