# Cyclopropene, 3-methyl-3-vinyl-

**Inchi:** InChI=1S/C6H8/c1-3-6(2)4-5-6/h3-5H,1H2,2H3
**InchiKey:** AZGBUFPIKVKSCD-UHFFFAOYSA-N
**Formula:** C6H8
**SMILES:** C=CC1(C)C=C1
**Mol. weight [g/mol]:** 80.13
**CAS:** 71153-30-5

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 172.70 | kJ/mol | Joback Method |
| hf | 104.08 | kJ/mol | Joback Method |
| hfus | 3.08 | kJ/mol | Joback Method |
| hvap | 27.33 | kJ/mol | Joback Method |
| ie | 8.29 | eV | NIST Webbook |
| log10ws | -1.69 | | Crippen Method |
| logp | 1.748 | | Crippen Method |
| mcvol | 75.940 | ml/mol | McGowan Method |
| pc | 4211.09 | kPa | Joback Method |
| tb | 339.50 | K | Joback Method |
| tc | 532.66 | K | Joback Method |
| tf | 198.22 | K | Joback Method |
| vc | 0.293 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 117.26 | J/mol×K | 339.50 | Joback Method |
| cpg | 129.00 | J/mol×K | 371.69 | Joback Method |
| cpg | 139.64 | J/mol×K | 403.89 | Joback Method |
| cpg | 149.27 | J/mol×K | 436.08 | Joback Method |
| cpg | 157.99 | J/mol×K | 468.27 | Joback Method |
| cpg | 165.90 | J/mol×K | 500.47 | Joback Method |
| cpg | 173.09 | J/mol×K | 532.66 | Joback Method |

# Sources

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|---|---|
| **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=C71153305&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 |
| **ie:** | Ionization energy |
| **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 |