# cis-1,1-Difluoro-2-methyl-3-vinylcyclopropane

**Inchi:** InChI=1S/C6H8F2/c1-3-5-4(2)6(5,7)8/h3-5H,1H2,2H3
**InchiKey:** AHHUGNMVDWMJFL-UHFFFAOYSA-N
**Formula:** C6H8F2
**SMILES:** C=CC1C(C)C1(F)F
**Mol. weight [g/mol]:** 118.12
**CAS:** 79517-49-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -262.30 | kJ/mol | Joback Method |
| hf | -386.60 | kJ/mol | Joback Method |
| hfus | 10.15 | kJ/mol | Joback Method |
| hvap | 24.79 | kJ/mol | Joback Method |
| log10ws | -1.91 | | Crippen Method |
| logp | 2.074 | | Crippen Method |
| mcvol | 83.780 | ml/mol | McGowan Method |
| pc | 3329.68 | kPa | Joback Method |
| tb | 329.54 | K | Joback Method |
| tc | 497.76 | K | Joback Method |
| tf | 190.16 | K | Joback Method |
| vc | 0.342 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 143.76 | J/mol×K | 329.54 | Joback Method |
| cpg | 155.87 | J/mol×K | 357.58 | Joback Method |
| cpg | 167.14 | J/mol×K | 385.61 | Joback Method |
| cpg | 177.62 | J/mol×K | 413.65 | Joback Method |
| cpg | 187.36 | J/mol×K | 441.69 | Joback Method |
| cpg | 196.42 | J/mol×K | 469.73 | Joback Method |
| cpg | 204.87 | J/mol×K | 497.76 | Joback Method |

# Sources

| | |
|---|---|
| **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=C79517490&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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