# 1-Butene, 4-cyclopropyl-

**Other names:** Cyclopropane, 3-butenyl
3-Butenylcyclopropane
**Inchi:** InChI=1S/C7H12/c1-2-3-4-7-5-6-7/h2,7H,1,3-6H2
**InchiKey:** UBHRQZLRQKVRRD-UHFFFAOYSA-N
**Formula:** C7H12
**SMILES:** C=CCCC1CC1
**Mol. weight [g/mol]:** 96.17
**CAS:** 7736-35-8

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 156.65 | kJ/mol | Joback Method |
| hf | 10.42 | kJ/mol | Joback Method |
| hfus | 10.74 | kJ/mol | Joback Method |
| hvap | 30.42 | kJ/mol | Joback Method |
| log10ws | -2.26 | | Crippen Method |
| logp | 2.363 | | Crippen Method |
| mcvol | 94.330 | ml/mol | McGowan Method |
| pc | 3388.08 | kPa | Joback Method |
| rinpol | 694.20 | | NIST Webbook |
| rinpol | 698.00 | | NIST Webbook |
| rinpol | 694.00 | | NIST Webbook |
| rinpol | 694.00 | | NIST Webbook |
| tb | 362.98 | K | Joback Method |
| tc | 544.99 | K | Joback Method |
| tf | 184.83 | K | Joback Method |
| vc | 0.365 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 163.53 | J/mol×K | 362.98 | Joback Method |
| cpg | 176.48 | J/mol×K | 393.32 | Joback Method |
| cpg | 188.74 | J/mol×K | 423.65 | Joback Method |

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|---|---|---|---|---|
| cpg | 200.33 | J/mol×K | 453.99 | Joback Method |
| cpg | 211.29 | J/mol×K | 484.32 | Joback Method |
| cpg | 221.65 | J/mol×K | 514.66 | Joback Method |
| cpg | 231.44 | J/mol×K | 544.99 | Joback Method |
| dvisc | 0.0008608 | Pa×s | 184.83 | Joback Method |
| dvisc | 0.0006435 | Pa×s | 214.52 | Joback Method |
| dvisc | 0.0005163 | Pa×s | 244.21 | Joback Method |
| dvisc | 0.0004345 | Pa×s | 273.90 | Joback Method |
| dvisc | 0.0003782 | Pa×s | 303.60 | Joback Method |
| dvisc | 0.0003375 | Pa×s | 333.29 | Joback Method |
| dvisc | 0.0003068 | Pa×s | 362.98 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C7736358&Units=SI |
| **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 |

# Legend

| | |
|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |