# 3-Butenyl, 2-methylene-

**Inchi:** InChI=1S/C5H7/c1-4-5(2)3/h4H,1-3H2
**InchiKey:** YWCXSTMXMNOMGL-UHFFFAOYSA-N
**Formula:** C5H7
**SMILES:** [CH2]C(=C)C=C
**Mol. weight [g/mol]:** 67.11
**CAS:** 31922-49-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 210.73 | kJ/mol | Joback Method |
| hf | 150.35 | kJ/mol | Joback Method |
| hfus | 6.52 | kJ/mol | Joback Method |
| hvap | 25.32 | kJ/mol | Joback Method |
| ie | 7.90 | eV | NIST Webbook |
| log10ws | -1.23 | | Crippen Method |
| logp | 1.563 | | Crippen Method |
| mcvol | 70.560 | ml/mol | McGowan Method |
| pc | 4082.92 | kPa | Joback Method |
| tb | 306.34 | K | Joback Method |
| tc | 476.11 | K | Joback Method |
| tf | 145.00 | K | Joback Method |
| vc | 0.270 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 96.53 | J/mol×K | 306.34 | Joback Method |
| cpg | 104.41 | J/mol×K | 334.64 | Joback Method |
| cpg | 111.80 | J/mol×K | 362.93 | Joback Method |
| cpg | 118.72 | J/mol×K | 391.23 | Joback Method |
| cpg | 125.19 | J/mol×K | 419.52 | Joback Method |
| cpg | 131.25 | J/mol×K | 447.82 | Joback Method |
| cpg | 136.92 | J/mol×K | 476.11 | 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=C31922493&Units=SI |

# 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 |
| **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 |