# 2-Butene, 2-(2-chlororethoxy)-3-methyl-

**Inchi:** InChI=1S/C7H13ClO/c1-6(2)7(3)9-5-4-8/h4-5H2,1-3H3
**InchiKey:** HAACTQJIKFKSSS-UHFFFAOYSA-N
**Formula:** C7H13ClO
**SMILES:** CC(C)=C(C)OCCCl
**Mol. weight [g/mol]:** 148.63
**CAS:** 56798-15-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -45.75 | kJ/mol | Joback Method |
| hf | -238.13 | kJ/mol | Joback Method |
| hfus | 16.85 | kJ/mol | Joback Method |
| hvap | 38.09 | kJ/mol | Joback Method |
| log10ws | -2.34 | | Crippen Method |
| logp | 2.556 | | Crippen Method |
| mcvol | 123.300 | ml/mol | McGowan Method |
| pc | 2823.32 | kPa | Joback Method |
| tb | 423.33 | K | Joback Method |
| tc | 610.77 | K | Joback Method |
| tf | 187.80 | K | Joback Method |
| vc | 0.476 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 231.29 | J/mol×K | 423.33 | Joback Method |
| cpg | 242.71 | J/mol×K | 454.57 | Joback Method |
| cpg | 253.64 | J/mol×K | 485.81 | Joback Method |
| cpg | 264.09 | J/mol×K | 517.05 | Joback Method |
| cpg | 274.09 | J/mol×K | 548.29 | Joback Method |
| cpg | 283.65 | J/mol×K | 579.53 | Joback Method |
| cpg | 292.77 | J/mol×K | 610.77 | Joback Method |

# Sources

| | |
|---|---|
| **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=C56798153&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 |
| **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 |