# Chloroacetamide, N-ethyl-N-3-methylbutyl-

**Inchi:** InChI=1S/C9H18ClNO/c1-4-11(9(12)7-10)6-5-8(2)3/h8H,4-7H2,1-3H3
**InchiKey:** JQTOQUGGWYCWII-UHFFFAOYSA-N
**Formula:** C9H18ClNO
**SMILES:** CCN(CCC(C)C)C(=O)CCl
**Mol. weight [g/mol]:** 191.70

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -7.61 | kJ/mol | Joback Method |
| hf | -295.16 | kJ/mol | Joback Method |
| hfus | 24.36 | kJ/mol | Joback Method |
| hvap | 48.41 | kJ/mol | Joback Method |
| log10ws | -1.85 | | Crippen Method |
| logp | 2.120 | | Crippen Method |
| mcvol | 161.460 | ml/mol | McGowan Method |
| pc | 2379.54 | kPa | Joback Method |
| rinpol | 1487.00 | | NIST Webbook |
| rinpol | 1487.00 | | NIST Webbook |
| tb | 508.62 | K | Joback Method |
| tc | 690.28 | K | Joback Method |
| tf | 288.51 | K | Joback Method |
| vc | 0.607 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 361.23 | J/mol×K | 508.62 | Joback Method |
| cpg | 375.33 | J/mol×K | 538.90 | Joback Method |
| cpg | 388.75 | J/mol×K | 569.17 | Joback Method |
| cpg | 401.52 | J/mol×K | 599.45 | Joback Method |
| cpg | 413.66 | J/mol×K | 629.73 | Joback Method |
| cpg | 425.19 | J/mol×K | 660.00 | Joback Method |
| cpg | 436.13 | J/mol×K | 690.28 | Joback Method |

# Sources

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|---|---|
| **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=U415266&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

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