# Chloroacetamide, N-ethyl-N-(3-methylphenyl)-

**Inchi:** InChI=1S/C11H14ClNO/c1-3-13(11(14)8-12)10-6-4-5-9(2)7-10/h4-7H,3,8H2,1-2H3
**InchiKey:** HDVSUKKVAMUTGV-UHFFFAOYSA-N
**Formula:** C11H14ClNO
**SMILES:** CCN(C(=O)CCl)c1cccc(C)c1
**Mol. weight [g/mol]:** 211.69

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 114.45 | kJ/mol | Joback Method |
| hf | -106.10 | kJ/mol | Joback Method |
| hfus | 26.71 | kJ/mol | Joback Method |
| hvap | 56.19 | kJ/mol | Joback Method |
| log10ws | -2.62 | | Crippen Method |
| logp | 2.587 | | Crippen Method |
| mcvol | 165.880 | ml/mol | McGowan Method |
| pc | 2673.54 | kPa | Joback Method |
| rinpol | 1616.00 | | NIST Webbook |
| tb | 586.48 | K | Joback Method |
| tc | 800.24 | K | Joback Method |
| tf | 364.99 | K | Joback Method |
| vc | 0.617 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 384.21 | J/mol×K | 586.48 | Joback Method |
| cpg | 398.34 | J/mol×K | 622.11 | Joback Method |
| cpg | 411.56 | J/mol×K | 657.73 | Joback Method |
| cpg | 423.91 | J/mol×K | 693.36 | Joback Method |
| cpg | 435.43 | J/mol×K | 728.99 | Joback Method |
| cpg | 446.18 | J/mol×K | 764.61 | Joback Method |
| cpg | 456.18 | J/mol×K | 800.24 | 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=U308475&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 |