# Ethanamine, 1,1-dimethyl, N-(1-methylethyl)

**Inchi:** InChI=1S/C7H17N/c1-6(2)8-7(3,4)5/h6,8H,1-5H3
**InchiKey:** ZWXQPERWRDHCMZ-UHFFFAOYSA-N
**Formula:** C7H17N
**SMILES:** CC(C)NC(C)(C)C
**Mol. weight [g/mol]:** 115.22

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 97.85 | kJ/mol | Joback Method |
| hf | -148.37 | kJ/mol | Joback Method |
| hfus | 8.05 | kJ/mol | Joback Method |
| hvap | 35.93 | kJ/mol | Joback Method |
| log10ws | -2.17 | | Crippen Method |
| logp | 1.783 | | Crippen Method |
| mcvol | 119.470 | ml/mol | McGowan Method |
| pc | 2921.84 | kPa | Joback Method |
| rinpol | 696.00 | | NIST Webbook |
| tb | 406.06 | K | Joback Method |
| tc | 590.51 | K | Joback Method |
| tf | 208.73 | K | Joback Method |
| vc | 0.446 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 239.77 | J/mol×K | 406.06 | Joback Method |
| cpg | 254.21 | J/mol×K | 436.80 | Joback Method |
| cpg | 267.92 | J/mol×K | 467.54 | Joback Method |
| cpg | 280.95 | J/mol×K | 498.29 | Joback Method |
| cpg | 293.32 | J/mol×K | 529.03 | Joback Method |
| cpg | 305.05 | J/mol×K | 559.77 | Joback Method |
| cpg | 316.17 | J/mol×K | 590.51 | Joback Method |

# Sources

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|---|---|
| **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=R19751&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **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 |

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