# 1-UNDECANAMINE, N,N-DIMETHYL-

**Inchi:** InChI=1S/C13H29N/c1-4-5-6-7-8-9-10-11-12-13-14(2)3/h4-13H2,1-3H3
**InchiKey:** MMWFTWUMBYZIRZ-UHFFFAOYSA-N
**Formula:** C13H29N
**SMILES:** CCCCCCCCCCCN(C)C
**Mol. weight [g/mol]:** 199.38

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| af | 0.6246 | | Cheméo Relay (1.0) |
| gf | 169.36 | kJ/mol | Joback Method |
| hf | -248.28 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 32.45 | kJ/mol | Joback Method |
| hvap | 65.53 | kJ/mol | Cheméo Relay (1.0) |
| ie | 8.14 | eV | Cheméo Relay (1.0) |
| log10ws | -4.63 | | Cheméo Relay (1.0) |
| logp | 4.079 | | Crippen Method |
| mcvol | 204.010 | ml/mol | McGowan Method |
| pc | 1641.76 | kPa | Joback Method |
| tb | 517.66 | K | Cheméo Relay (1.0) |
| tc | 675.58 | K | Cheméo Relay (1.0) |
| tf | 257.84 | K | Cheméo Relay (1.0) |
| vc | 0.813 | m3/kmol | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 491.85 | J/mol×K | 509.28 | Joback Method |
| cpg | 509.86 | J/mol×K | 535.80 | Joback Method |
| cpg | 527.16 | J/mol×K | 562.33 | Joback Method |
| cpg | 543.77 | J/mol×K | 588.85 | Joback Method |
| cpg | 559.71 | J/mol×K | 615.38 | Joback Method |
| cpg | 575.00 | J/mol×K | 641.90 | Joback Method |
| cpg | 589.66 | J/mol×K | 668.43 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C17373283&Units=SI |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

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|---|---|
| **af:** | Acentric Factor |
| **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 |