# 2-Propen-1-amine, N-ethyl-

**Other names:** Allylethylamine
N-ethylallylamine
**Inchi:** InChI=1S/C5H11N/c1-3-5-6-4-2/h3,6H,1,4-5H2,2H3
**InchiKey:** PUUULGNNRPBVBA-UHFFFAOYSA-N
**Formula:** C5H11N
**SMILES:** C=CCNCC
**Mol. weight [g/mol]:** 85.15
**CAS:** 2424-02-4

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 168.45 | kJ/mol | Joback Method |
| hf | 32.37 | kJ/mol | Joback Method |
| hfus | 12.52 | kJ/mol | Joback Method |
| hvap | 32.49 | kJ/mol | Joback Method |
| log10ws | -0.96 | | Crippen Method |
| logp | 0.782 | | Crippen Method |
| mcvol | 86.990 | ml/mol | McGowan Method |
| pc | 3704.46 | kPa | Joback Method |
| rinpol | 640.00 | | NIST Webbook |
| rinpol | 640.00 | | NIST Webbook |
| tb | 360.65 | K | Joback Method |
| tc | 534.49 | K | Joback Method |
| tf | 197.01 | K | Joback Method |
| vc | 0.332 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 149.09 | J/mol×K | 360.65 | Joback Method |
| cpg | 158.57 | J/mol×K | 389.62 | Joback Method |
| cpg | 167.67 | J/mol×K | 418.60 | Joback Method |
| cpg | 176.39 | J/mol×K | 447.57 | Joback Method |
| cpg | 184.75 | J/mol×K | 476.54 | Joback Method |

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|---|---|---|---|---|
| cpg | 192.75 | J/mol×K | 505.52 | Joback Method |
| cpg | 200.41 | J/mol×K | 534.49 | 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=C2424024&Units=SI |

# 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 |