# Methyldiallylamine

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|---|---|
| **Other names:** | 2-Propen-1-amine, N-methyl-N-2-propenyl-<br>Diallylmethylamine<br>N,N-Di(2-propenyl)-N-methylamine<br>N-methyldiallylamine |
| **Inchi:** | InChI=1S/C7H13N/c1-4-6-8(3)7-5-2/h4-5H,1-2,6-7H2,3H3 |
| **InchiKey:** | WGESLFUSXZBFQF-UHFFFAOYSA-N |
| **Formula:** | C7H13N |
| **SMILES:** | C=CCN(C)CC=C |
| **Mol. weight [g/mol]:** | 111.18 |
| **CAS:** | 2424-01-3 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 294.52 | kJ/mol | Joback Method |
| hf | 130.58 | kJ/mol | Joback Method |
| hfus | 14.35 | kJ/mol | Joback Method |
| hvap | 31.88 | kJ/mol | Joback Method |
| ie | 8.40 ± 0.30 | eV | NIST Webbook |
| log10ws | -1.03 | | Crippen Method |
| logp | 1.290 | | Crippen Method |
| mcvol | 110.870 | ml/mol | McGowan Method |
| pc | 3059.17 | kPa | Joback Method |
| tb | 385.00 | K | NIST Webbook |
| tc | 534.65 | K | Joback Method |
| tf | 197.60 | K | Joback Method |
| vc | 0.407 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 193.10 | J/mol×K | 365.36 | Joback Method |
| cpg | 205.06 | J/mol×K | 393.58 | Joback Method |
| cpg | 216.48 | J/mol×K | 421.79 | Joback Method |
| cpg | 227.36 | J/mol×K | 450.01 | Joback Method |

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|---|---|---|---|---|
| cpg | 237.73 | J/mol×K | 478.22 | Joback Method |
| cpg | 247.61 | J/mol×K | 506.44 | Joback Method |
| cpg | 257.02 | J/mol×K | 534.65 | 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=C2424013&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |
| **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 |