# 2-Butanamine, N-methyl-

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|---|---|
| **Other names:** | sec-Butylmethylamine |
| | Propylamine, N,1-dimethyl- |
| | N-Methyl-sec-butylamine |
| | N-Methyl-N-sec-butylamine |
| | N-Methyl-2-butylamine |
| | N,1-Dimethylpropylamine |
| | 2-(Methylamino)butane |
| | N-(sec-Butyl)-N-methylamine |
| **Inchi:** | InChI=1S/C5H13N/c1-4-5(2)6-3/h5-6H,4H2,1-3H3 |
| **InchiKey:** | PYFSCIWXNSXGNS-UHFFFAOYSA-N |
| **Formula:** | C5H13N |
| **SMILES:** | CCC(C)NC |
| **Mol. weight [g/mol]:** | 87.16 |
| **CAS:** | 7713-69-1 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 78.17 | kJ/mol | Joback Method |
| hf | -98.34 | kJ/mol | Joback Method |
| hfus | 10.28 | kJ/mol | Joback Method |
| hvap | 32.77 | kJ/mol | Joback Method |
| log10ws | -1.22 | | Crippen Method |
| logp | 1.004 | | Crippen Method |
| mcvol | 91.290 | ml/mol | McGowan Method |
| pc | 3555.77 | kPa | Joback Method |
| rinpol | 652.00 | | NIST Webbook |
| tb | 363.53 | K | Joback Method |
| tc | 537.86 | K | Joback Method |
| tf | 183.77 | K | Joback Method |
| vc | 0.344 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|

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|---|---|---|---|---|
| cpg | 162.53 | J/mol×K | 363.53 | Joback Method |
| cpg | 172.97 | J/mol×K | 392.59 | Joback Method |
| cpg | 183.01 | J/mol×K | 421.64 | Joback Method |
| cpg | 192.67 | J/mol×K | 450.70 | Joback Method |
| cpg | 201.96 | J/mol×K | 479.75 | Joback Method |
| cpg | 210.89 | J/mol×K | 508.81 | Joback Method |
| cpg | 219.45 | J/mol×K | 537.86 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C7713691&Units=SI |
| **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 |

# 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 |