# N-METHYL-TERT-BUTYLAMINE

**Other names:** 2-Propanamine, N,2-dimethyl-
N-Methyl-tert-butylamine
tert-butylmethylamine
**Inchi:** InChI=1S/C5H13N/c1-5(2,3)6-4/h6H,1-4H3
**InchiKey:** ZQGJEUVBUVKZKS-UHFFFAOYSA-N
**Formula:** C5H13N
**SMILES:** CNC(C)(C)C
**Mol. weight [g/mol]:** 87.17

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 6.39 | kJ/mol | Joback Method |
| ie | 8.08 | eV | Cheméo Relay (1.0) |
| logp | 1.004 | | Crippen Method |
| mcvol | 91.290 | ml/mol | McGowan Method |
| rinpol | 607.00 | | NIST Webbook |
| rinpol | 607.00 | | NIST Webbook |
| tb | 346.65 ± 1.50 | K | NIST Webbook |
| tb | 332.15 ± 4.00 | K | NIST Webbook |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 163.44 | J/mol×K | 360.74 | Joback Method |
| cpg | 175.08 | J/mol×K | 391.06 | Joback Method |
| cpg | 186.14 | J/mol×K | 421.37 | Joback Method |
| cpg | 196.65 | J/mol×K | 451.69 | Joback Method |
| cpg | 206.62 | J/mol×K | 482.01 | Joback Method |
| cpg | 216.07 | J/mol×K | 512.33 | Joback Method |
| cpg | 225.03 | J/mol×K | 542.64 | Joback Method |
| hvapt | 32.30 ± 1.40 | kJ/mol | 279.00 | NIST Webbook |

# Sources

| | |
|---|---|
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C14610378&Units=SI |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **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 |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvapt:** | Enthalpy of vaporization at a given temperature |
| **ie:** | Ionization energy |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |