

# 1-Butanamine, N-methyl-

<b>Other names:</b>	Butylamine, N-methyl- Butylmethylamine Methyl-N-butylamine Methylbutylamine N-Butyl-N-methylamine N-Butylmethylamine N-Methyl-n-butylamine N-Methylbutanamine N-Methylbutylamine UN 2945 N-Methyl-1-butanamine
<b>Inchi:</b>	InChI=1S/C5H13N/c1-3-4-5-6-2/h6H,3-5H2,1-2H3
<b>InchiKey:</b>	QCOGXLOEWLIDC-UHFFFAOYSA-N
<b>Formula:</b>	C5H13N
<b>SMILES:</b>	CCCCNC
<b>Mol. weight [g/mol]:</b>	87.16
<b>CAS:</b>	110-68-9

## Physical Properties

Property code	Value	Unit	Source
chl	-3684.20 ± 3.70	kJ/mol	NIST Webbook
gf	80.61	kJ/mol	Joback Method
hf	-108.30 ± 4.30	kJ/mol	NIST Webbook
hfl	-141.20 ± 3.80	kJ/mol	NIST Webbook
hfus	13.80	kJ/mol	Joback Method
hvap	32.90 ± 2.00	kJ/mol	NIST Webbook
hvap	38.10	kJ/mol	NIST Webbook
hvap	32.90	kJ/mol	NIST Webbook
log10ws	-1.10		Crippen Method
logp	1.006		Crippen Method
mcvol	91.290	ml/mol	McGowan Method
pc	3522.09	kPa	Joback Method
rinpola	601.00		NIST Webbook
rinpola	630.00		NIST Webbook
rinpola	630.00		NIST Webbook
rinpola	630.00		NIST Webbook
tb	363.65 ± 3.00	K	NIST Webbook

tb	364.20	K	NIST Webbook
tb	364.25	K	NIST Webbook
tb	364.15 ± 0.60	K	NIST Webbook
tc	534.22	K	Joback Method
tf	198.20 ± 0.60	K	NIST Webbook
tf	198.15	K	NIST Webbook
tf	198.15 ± 0.60	K	NIST Webbook
vc	0.350	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	162.67	J/mol×K	363.97	Joback Method
cpg	172.76	J/mol×K	392.35	Joback Method
cpg	182.49	J/mol×K	420.72	Joback Method
cpg	191.86	J/mol×K	449.10	Joback Method
cpg	200.89	J/mol×K	477.47	Joback Method
cpg	209.56	J/mol×K	505.85	Joback Method
cpg	217.91	J/mol×K	534.22	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C110689&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C110689&amp;Units=SI</a>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfl:</b>	Liquid phase enthalpy of formation at standard conditions

<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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