

# N-Methyl-N-n-butyl-amphetamine

<b>Other names:</b>	N-Methyl-N-butylamphetamine
<b>Inchi:</b>	InChI=1S/C14H23N/c1-4-5-11-15(3)13(2)12-14-9-7-6-8-10-14/h6-10,13H,4-5,11-12H2,1-
<b>InchiKey:</b>	XWUXLSYHMHYPV-UHFFFAOYSA-N
<b>Formula:</b>	C14H23N
<b>SMILES:</b>	CCCCN(C)C(C)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	205.34

## Physical Properties

Property code	Value	Unit	Source
gf	287.75	kJ/mol	Joback Method
hf	-33.51	kJ/mol	Joback Method
hfus	25.56	kJ/mol	Joback Method
hvap	50.69	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.349		Crippen Method
mcvol	194.340	ml/mol	McGowan Method
pc	2019.95	kPa	Joback Method
rinpol	1486.00		NIST Webbook
rinpol	1488.00		NIST Webbook
rinpol	1486.00		NIST Webbook
rinpol	1486.00		NIST Webbook
rinpol	1488.00		NIST Webbook
ripol	1743.00		NIST Webbook
ripol	1743.00		NIST Webbook
ripol	1743.00		NIST Webbook
tb	558.40	K	Joback Method
tc	753.95	K	Joback Method
tf	291.43	K	Joback Method
vc	0.724	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.17	J/mol×K	558.40	Joback Method

cpg	498.19	J/mol×K	590.99	Joback Method
cpg	516.15	J/mol×K	623.58	Joback Method
cpg	533.10	J/mol×K	656.18	Joback Method
cpg	549.08	J/mol×K	688.77	Joback Method
cpg	564.13	J/mol×K	721.36	Joback Method
cpg	578.31	J/mol×K	753.95	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R18179&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R18179&amp;Units=SI</a>
<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>

## Legend

<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>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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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