

# 2-Butanamine, N,N-diethyl

<b>Other names:</b>	2-Butaneamine, N,N-diethyl
<b>Inchi:</b>	InChI=1S/C8H19N/c1-5-8(4)9(6-2)7-3/h8H,5-7H2,1-4H3
<b>InchiKey:</b>	HXPXISSNEJVFRA-UHFFFAOYSA-N
<b>Formula:</b>	C8H19N
<b>SMILES:</b>	CCC(C)N(CC)CC
<b>Mol. weight [g/mol]:</b>	129.24

## Physical Properties

Property code	Value	Unit	Source
gf	124.82	kJ/mol	Joback Method
hf	-146.20	kJ/mol	Joback Method
hfus	15.97	kJ/mol	Joback Method
hvap	35.06	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	2.127		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2550.76	kPa	Joback Method
rinpol	808.00		NIST Webbook
rinpol	827.00		NIST Webbook
rinpol	827.00		NIST Webbook
rinpol	808.00		NIST Webbook
tb	394.44	K	Joback Method
tc	560.41	K	Joback Method
tf	197.39	K	Joback Method
vc	0.495	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.14	J/molxK	394.44	Joback Method
cpg	275.63	J/molxK	422.10	Joback Method
cpg	289.54	J/molxK	449.76	Joback Method
cpg	302.90	J/molxK	477.42	Joback Method
cpg	315.71	J/molxK	505.09	Joback Method

cpg	328.00	J/mol×K	532.75	Joback Method
cpg	339.78	J/mol×K	560.41	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R12882&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R12882&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>hvac:</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>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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