

# Hydrazine, 1,2-dibutyl-

<b>Other names:</b>	1,2-di-n-Butylhydrazine
<b>Inchi:</b>	InChI=1S/C8H20N2/c1-3-5-7-9-10-8-6-4-2/h9-10H,3-8H2,1-2H3
<b>InchiKey:</b>	FEBRIAPYLGMZSR-UHFFFAOYSA-N
<b>Formula:</b>	C8H20N2
<b>SMILES:</b>	CCCCNNCCCC
<b>Mol. weight [g/mol]:</b>	144.26
<b>CAS:</b>	1744-71-4

## Physical Properties

Property code	Value	Unit	Source
gf	195.26	kJ/mol	Joback Method
hf	-59.40	kJ/mol	NIST Webbook
hfus	26.67	kJ/mol	Joback Method
hvap	46.27	kJ/mol	Joback Method
ie	8.65	eV	NIST Webbook
log10ws	-2.54		Crippen Method
logp	1.681		Crippen Method
mcvol	143.540	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
tb	482.78	K	Joback Method
tc	654.76	K	Joback Method
tf	285.24	K	Joback Method
vc	0.553	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.81	J/molxK	482.78	Joback Method
cpg	342.81	J/molxK	511.44	Joback Method
cpg	356.24	J/molxK	540.11	Joback Method
cpg	369.11	J/molxK	568.77	Joback Method
cpg	381.45	J/molxK	597.43	Joback Method
cpg	393.25	J/molxK	626.10	Joback Method
cpg	404.54	J/molxK	654.76	Joback Method

# Sources

<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=C1744714&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1744714&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>ie:</b>	Ionization energy
<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>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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