

# 3-Azabicyclo[3.2.2]nonane

<b>Inchi:</b>	InChI=1S/C8H15N/c1-2-8-4-3-7(1)5-9-6-8/h7-9H,1-6H2
<b>InchiKey:</b>	LICHZOBEUWVYSY-UHFFFAOYSA-N
<b>Formula:</b>	C8H15N
<b>SMILES:</b>	C1CC2CCC1CNC2
<b>Mol. weight [g/mol]:</b>	125.21
<b>CAS:</b>	283-24-9

## Physical Properties

Property code	Value	Unit	Source
chs	-5190.29 ± 0.67	kJ/mol	NIST Webbook
gf	189.39	kJ/mol	Joback Method
hf	-43.68 ± 0.79	kJ/mol	NIST Webbook
hfs	-101.60 ± 0.67	kJ/mol	NIST Webbook
hfus	16.04	kJ/mol	Joback Method
hsub	57.90	kJ/mol	NIST Webbook
hsub	57.80 ± 1.30	kJ/mol	NIST Webbook
hvap	40.50	kJ/mol	Joback Method
log10ws	-1.67		Crippen Method
logp	1.396		Crippen Method
mcvol	111.840	ml/mol	McGowan Method
pc	3782.33	kPa	Joback Method
ss	245.73	J/molxK	NIST Webbook
tb	457.28	K	Joback Method
tc	684.03	K	Joback Method
tf	310.27	K	Joback Method
tt	467.12 ± 0.01	K	NIST Webbook
vc	0.410	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.04	J/molxK	608.45	Joback Method
cpg	328.94	J/molxK	646.24	Joback Method
cpg	243.63	J/molxK	457.28	Joback Method

cpg	262.96	J/mol×K	495.07	Joback Method
cpg	281.10	J/mol×K	532.86	Joback Method
cpg	298.11	J/mol×K	570.66	Joback Method
cpg	342.87	J/mol×K	684.03	Joback Method
cps	237.80	J/mol×K	350.00	NIST Webbook
cps	239.03	J/mol×K	310.00	NIST Webbook
hfust	14.55	kJ/mol	297.80	NIST Webbook
hfust	6.92	kJ/mol	466.60	NIST Webbook
hfust	6.92	kJ/mol	466.60	NIST Webbook
hvapt	52.20	kJ/mol	373.00	NIST Webbook
sfust	14.82	J/mol×K	466.60	NIST Webbook
sfust	48.87	J/mol×K	297.80	NIST Webbook

## Sources

<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=C283249&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C283249&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>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure

<b>sfust:</b>	Entropy of fusion at a given temperature
<b>ss:</b>	Solid phase molar entropy at standard conditions
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume

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