

# Diaziridine,3,3-dimethyl-

<b>Other names:</b>	3,3-Dimethyldiaziridine
<b>Inchi:</b>	InChI=1S/C3H8N2/c1-3(2)4-5-3/h4-5H,1-2H3
<b>InchiKey:</b>	YIOCAJQMPUYWMT-UHFFFAOYSA-N
<b>Formula:</b>	C3H8N2
<b>SMILES:</b>	CC1(C)NN1
<b>Mol. weight [g/mol]:</b>	72.11
<b>CAS:</b>	4901-76-2

## Physical Properties

Property code	Value	Unit	Source
gf	205.06	kJ/mol	Joback Method
hf	58.41	kJ/mol	Joback Method
hfus	14.54	kJ/mol	Joback Method
hvap	34.55	kJ/mol	Joback Method
ie	9.90	eV	NIST Webbook
log10ws	-0.95		Crippen Method
logp	-0.170		Crippen Method
mcvol	62.230	ml/mol	McGowan Method
pc	6093.99	kPa	Joback Method
tb	372.12	K	Joback Method
tc	584.23	K	Joback Method
tf	375.47	K	Joback Method
vc	0.233	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	107.64	J/molxK	372.12	Joback Method
cpg	117.05	J/molxK	407.47	Joback Method
cpg	125.61	J/molxK	442.82	Joback Method
cpg	133.44	J/molxK	478.17	Joback Method
cpg	140.61	J/molxK	513.52	Joback Method
cpg	147.23	J/molxK	548.87	Joback Method
cpg	153.39	J/molxK	584.23	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=C4901762&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4901762&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>

# 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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