

# Aziridine, 2,2-dimethyl-

<b>Other names:</b>	2,2-Dimethylaziridine 2,2-Dimethylethylenimine
<b>Inchi:</b>	InChI=1S/C4H9N/c1-4(2)3-5-4/h5H,3H2,1-2H3
<b>InchiKey:</b>	FGRJGEWVJCCOJJ-UHFFFAOYSA-N
<b>Formula:</b>	C4H9N
<b>SMILES:</b>	CC1(C)CN1
<b>Mol. weight [g/mol]:</b>	71.12
<b>CAS:</b>	2658-24-4

## Physical Properties

Property code	Value	Unit	Source
gf	125.77	kJ/mol	Joback Method
hf	-0.04	kJ/mol	Joback Method
hfus	7.54	kJ/mol	Joback Method
hvap	30.02	kJ/mol	Joback Method
ie	9.29 ± 0.02	eV	NIST Webbook
ie	8.94	eV	NIST Webbook
ie	8.94	eV	NIST Webbook
log10ws	-0.69		Crippen Method
logp	0.368		Crippen Method
mcvol	66.340	ml/mol	McGowan Method
pc	5087.49	kPa	Joback Method
rinpol	629.00		NIST Webbook
rinpol	629.00		NIST Webbook
tb	346.45	K	Joback Method
tc	546.11	K	Joback Method
tf	281.71	K	Joback Method
vc	0.252	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.01	J/mol×K	346.45	Joback Method
cpg	118.94	J/mol×K	379.73	Joback Method

cpg	128.92	J/mol×K	413.00	Joback Method
cpg	138.04	J/mol×K	446.28	Joback Method
cpg	146.38	J/mol×K	479.56	Joback Method
cpg	154.04	J/mol×K	512.84	Joback Method
cpg	161.10	J/mol×K	546.11	Joback Method

## Sources

<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=C2658244&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2658244&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>

## 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>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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