

# Methanimine

<b>Inchi:</b>	InChI=1S/CH3N/c1-2/h2H,1H2
<b>InchiKey:</b>	WDWDWGRYHDPSPDS-UHFFFAOYSA-N
<b>Formula:</b>	CH3N
<b>SMILES:</b>	C=N
<b>Mol. weight [g/mol]:</b>	29.04
<b>CAS:</b>	2053-29-4

## Physical Properties

Property code	Value	Unit	Source
affp	852.90	kJ/mol	NIST Webbook
basg	818.70	kJ/mol	NIST Webbook
gf	177.31	kJ/mol	Joback Method
hf	69.00 ± 8.00	kJ/mol	NIST Webbook
hf	110.00 ± 8.00	kJ/mol	NIST Webbook
hf	110.00 ± 13.00	kJ/mol	NIST Webbook
hvap	29.19	kJ/mol	Joback Method
ie	9.97	eV	NIST Webbook
ie	9.88 ± 0.07	eV	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	10.70	eV	NIST Webbook
log10ws	-1.16		Crippen Method
logp	0.266		Crippen Method
mcvol	30.630	ml/mol	McGowan Method
tb	299.26	K	Joback Method
tf	187.09	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	33.80	J/molxK	299.26	Joback Method
cpg	7.26	J/molxK	100.12	Joback Method
cpg	7.26	J/molxK	100.12	Joback Method
cpg	7.26	J/molxK	100.12	Joback Method
cpg	7.26	J/molxK	100.12	Joback Method

cpg	7.26	J/mol×K	100.12	Joback Method
cpg	7.26	J/mol×K	100.12	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C2053294&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2053294&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>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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>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>mvol:</b>	McGowan's characteristic volume
<b>tb:</b>	Normal Boiling Point Temperature
<b>tf:</b>	Normal melting (fusion) point

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