

# Ethanamine, N-methyl-N-nitro-

<b>Other names:</b>	Ethylamine, N-methyl-N-nitro-
<b>Inchi:</b>	InChI=1S/C3H8N2O2/c1-3-4(2)5(6)7/h3H2,1-2H3
<b>InchiKey:</b>	NNUHLKRNOYVNHI-UHFFFAOYSA-N
<b>Formula:</b>	C3H8N2O2
<b>SMILES:</b>	CCN(C)[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	104.11
<b>CAS:</b>	19092-01-4

## Physical Properties

Property code	Value	Unit	Source
gf	120.71	kJ/mol	Joback Method
hf	-48.48	kJ/mol	Joback Method
hfus	17.91	kJ/mol	Joback Method
hvap	40.91	kJ/mol	Joback Method
log10ws	-0.72		Crippen Method
logp	0.130		Crippen Method
mcvol	80.530	ml/mol	McGowan Method
pc	4468.24	kPa	Joback Method
tb	432.32	K	Joback Method
tc	639.21	K	Joback Method
tf	299.65	K	Joback Method
vc	0.303	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	161.20	J/mol×K	432.32	Joback Method
cpg	170.33	J/mol×K	466.80	Joback Method
cpg	178.94	J/mol×K	501.28	Joback Method
cpg	187.05	J/mol×K	535.77	Joback Method
cpg	194.69	J/mol×K	570.25	Joback Method
cpg	201.88	J/mol×K	604.73	Joback Method
cpg	208.64	J/mol×K	639.21	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=C19092014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19092014&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>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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