

# Acetamide, N-ethenyl-N-methyl-

<b>Other names:</b>	Acetamide, N-methyl-N-vinyl- N-Methyl-N-vinylacetamide N-Vinyl-N-methylacetamide N-Vinylmethylacetamide
<b>Inchi:</b>	InChI=1S/C5H9NO/c1-4-6(3)5(2)7/h4H,1H2,2-3H3
<b>InchiKey:</b>	PNLUGRYDUHRLOF-UHFFFAOYSA-N
<b>Formula:</b>	C5H9NO
<b>SMILES:</b>	C=CN(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	99.13
<b>CAS:</b>	3195-78-6

## Physical Properties

Property code	Value	Unit	Source
gf	60.92	kJ/mol	Joback Method
hf	-66.15	kJ/mol	Joback Method
hfus	12.05	kJ/mol	Joback Method
hvap	34.84	kJ/mol	Joback Method
log10ws	-0.61		Crippen Method
logp	0.608		Crippen Method
mcvol	88.560	ml/mol	McGowan Method
pc	3930.78	kPa	Joback Method
tb	376.79	K	Joback Method
tc	557.36	K	Joback Method
tf	226.75	K	Joback Method
vc	0.321	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.25	J/molxK	376.79	Joback Method
cpg	163.64	J/molxK	406.88	Joback Method
cpg	172.58	J/molxK	436.98	Joback Method
cpg	181.08	J/molxK	467.07	Joback Method
cpg	189.16	J/molxK	497.17	Joback Method

cpg	196.83	J/mol×K	527.26	Joback Method
cpg	204.11	J/mol×K	557.36	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	343.20	K	3.30	NIST Webbook

## 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=C3195786&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3195786&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>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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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