

# 2-Chloro-N-ethylacetamide

<b>Other names:</b>	N-Ethylchloroacetamide (N-Chloroacetyl)ethyl amine Acetamide, 2-chloro-N-ethyl-
<b>Inchi:</b>	InChI=1S/C4H8ClNO/c1-2-6-4(7)3-5/h2-3H2,1H3,(H,6,7)
<b>InchiKey:</b>	JUBORNFANZZVJL-UHFFFAOYSA-N
<b>Formula:</b>	C4H8ClNO
<b>SMILES:</b>	CCNC(=O)CCl
<b>Mol. weight [g/mol]:</b>	121.56
<b>CAS:</b>	105-35-1

## Physical Properties

Property code	Value	Unit	Source
gf	-68.66	kJ/mol	Joback Method
hf	-200.74	kJ/mol	Joback Method
hfus	17.01	kJ/mol	Joback Method
hvap	42.06	kJ/mol	Joback Method
log10ws	-0.61		Crippen Method
logp	0.361		Crippen Method
mcvol	91.010	ml/mol	McGowan Method
pc	4093.38	kPa	Joback Method
tb	432.39	K	Joback Method
tc	624.41	K	Joback Method
tf	267.35	K	Joback Method
vc	0.349	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	166.18	J/mol×K	432.39	Joback Method
cpg	174.13	J/mol×K	464.39	Joback Method
cpg	181.70	J/mol×K	496.40	Joback Method
cpg	188.92	J/mol×K	528.40	Joback Method
cpg	195.80	J/mol×K	560.40	Joback Method
cpg	202.33	J/mol×K	592.41	Joback Method

cpg

208.53

J/mol×K

624.41

Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	377.00 ± 1.00	K	2.70	NIST Webbook

## Sources

<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>
<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=C105351&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C105351&amp;Units=SI</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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