

# Alpha-chloro-n-ethyl acetanilide

<b>Other names:</b>	2-chloro-N-ethylacetanilide
<b>Inchi:</b>	InChI=1S/C10H12ClNO/c1-2-12(10(13)8-11)9-6-4-3-5-7-9/h3-7H,2,8H2,1H3
<b>InchiKey:</b>	JJZBASRBEGDLNO-UHFFFAOYSA-N
<b>Formula:</b>	C10H12ClNO
<b>SMILES:</b>	CCN(C(=O)CCl)c1ccccc1
<b>Mol. weight [g/mol]:</b>	197.66
<b>CAS:</b>	39086-61-8

## Physical Properties

Property code	Value	Unit	Source
gf	115.66	kJ/mol	Joback Method
hf	-73.99	kJ/mol	Joback Method
hfus	24.51	kJ/mol	Joback Method
hvap	53.30	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.278		Crippen Method
mcvol	151.790	ml/mol	McGowan Method
pc	3009.03	kPa	Joback Method
tb	558.62	K	Joback Method
tc	775.03	K	Joback Method
tf	341.20	K	Joback Method
vc	0.560	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	337.58	J/mol×K	558.62	Joback Method
cpg	351.30	J/mol×K	594.69	Joback Method
cpg	364.07	J/mol×K	630.76	Joback Method
cpg	375.95	J/mol×K	666.83	Joback Method
cpg	386.99	J/mol×K	702.90	Joback Method
cpg	397.23	J/mol×K	738.97	Joback Method
cpg	406.72	J/mol×K	775.03	Joback Method

# Sources

<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>
<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=C39086618&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39086618&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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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