

# Acetamide, 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphe

Other names:	Acetochlor 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide
Inchi:	InChI=1S/C14H20ClNO2/c1-4-12-8-6-7-11(3)14(12)16(10-18-5-2)13(17)9-15/h6-8H,4-5,9
InchiKey:	VTNQPKEFIQCLBDU-UHFFFAOYSA-N
Formula:	C14H20ClNO2
SMILES:	CCOCN(C(=O)CCl)c1c(C)cccc1CC
Mol. weight [g/mol]:	269.77
CAS:	34256-82-1

## Physical Properties

Property code	Value	Unit	Source
gf	25.08	kJ/mol	Joback Method
hf	-311.71	kJ/mol	Joback Method
hfus	35.28	kJ/mol	Joback Method
hvap	65.94	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.123		Crippen Method
mcvol	214.020	ml/mol	McGowan Method
pc	1968.30	kPa	Joback Method
rinpol	1875.00		NIST Webbook
rinpol	1882.00		NIST Webbook
rinpol	1852.00		NIST Webbook
rinpol	1882.00		NIST Webbook
rinpol	1875.00		NIST Webbook
tb	682.52	K	Joback Method
tc	885.67	K	Joback Method
tf	433.55	K	Joback Method
vc	0.802	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	561.02	J/molxK	682.52	Joback Method
cpg	576.24	J/molxK	716.38	Joback Method

cpg	590.56	J/mol×K	750.24	Joback Method
cpg	604.00	J/mol×K	784.10	Joback Method
cpg	616.59	J/mol×K	817.95	Joback Method
cpg	628.35	J/mol×K	851.81	Joback Method
cpg	639.32	J/mol×K	885.67	Joback Method

## 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=C34256821&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C34256821&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>rinpola:</b>	Non-polar retention indices
<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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