

# Ethanol, 1-chloro-, acetate

<b>Other names:</b>	1-Chloroethanol acetate
<b>Inchi:</b>	InChI=1S/C4H7ClO2/c1-3(5)7-4(2)6/h3H,1-2H3
<b>InchiKey:</b>	CGKKDGMMSOGLM-UHFFFAOYSA-N
<b>Formula:</b>	C4H7ClO2
<b>SMILES:</b>	CC(=O)OC(C)Cl
<b>Mol. weight [g/mol]:</b>	122.55
<b>CAS:</b>	5912-58-3

## Physical Properties

Property code	Value	Unit	Source
gf	-265.49	kJ/mol	Joback Method
hf	-391.71	kJ/mol	Joback Method
hfus	9.58	kJ/mol	Joback Method
hvap	37.65	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	1.134		Crippen Method
mcvol	86.900	ml/mol	McGowan Method
pc	3980.54	kPa	Joback Method
rinpol	726.00		NIST Webbook
rinpol	744.00		NIST Webbook
rinpol	726.00		NIST Webbook
rinpol	724.00		NIST Webbook
rinpol	724.00		NIST Webbook
ripol	1130.00		NIST Webbook
ripol	1123.00		NIST Webbook
ripol	1153.00		NIST Webbook
ripol	1150.00		NIST Webbook
ripol	1123.00		NIST Webbook
tb	404.20	K	Joback Method
tc	596.19	K	Joback Method
tf	221.92	K	Joback Method
vc	0.327	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.16	J/molxK	404.20	Joback Method
cpg	184.27	J/molxK	564.19	Joback Method
cpg	178.13	J/molxK	532.19	Joback Method
cpg	171.74	J/molxK	500.19	Joback Method
cpg	165.11	J/molxK	468.20	Joback Method
cpg	158.25	J/molxK	436.20	Joback Method
cpg	190.17	J/molxK	596.19	Joback Method
dvisc	0.0003140	Paxs	404.20	Joback Method
dvisc	0.0004049	Paxs	373.82	Joback Method
dvisc	0.0005462	Paxs	343.44	Joback Method
dvisc	0.0007807	Paxs	313.06	Joback Method
dvisc	0.0012051	Paxs	282.68	Joback Method
dvisc	0.0020651	Paxs	252.30	Joback Method
dvisc	0.0041012	Paxs	221.92	Joback Method

## Sources

<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=C5912583&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5912583&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>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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