

# Ethanol, 2-chloro-, acetate

<b>Other names:</b>	«beta»-Chloroethyl acetate 1-Acetoxy-2-chloroethane 2-Acetoxy-1-chloroethane 2-Acetoxyethyl chloride 2-Chloroethyl acetate CH <sub>3</sub> C(O)OCH <sub>2</sub> CH <sub>2</sub> Cl Acetic acid «beta»-chloroethyl ester 2-Chloroethyl ethanoate Acetoxyethyl chloride 2-Chlorethylacetat 2-Chloroethanol acetate 2-Chloroethyl ester of acetic acid Ethanol, 2-chloro-, 1-acetate NSC 77374 Acetic acid, 2-chloroethyl ester Chloroethyl acetate
<b>Inchi:</b>	InChI=1S/C4H7ClO2/c1-4(6)7-3-2-5/h2-3H2,1H3
<b>InchiKey:</b>	VIRWKAJWTKAIMA-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>4</sub> H <sub>7</sub> ClO <sub>2</sub>
<b>SMILES:</b>	CC(=O)OCCCl
<b>Mol. weight [g/mol]:</b>	122.55
<b>CAS:</b>	542-58-5

## Physical Properties

Property code	Value	Unit	Source
gf	-263.05	kJ/mol	Joback Method
hf	-386.43	kJ/mol	Joback Method
hfus	13.10	kJ/mol	Joback Method
hvap	41.50 ± 0.20	kJ/mol	NIST Webbook
log10ws	-0.51		Crippen Method
logp	0.788		Crippen Method
mcvol	86.900	ml/mol	McGowan Method
pc	3940.66	kPa	Joback Method
rinpol	825.00		NIST Webbook
rinpol	828.00		NIST Webbook
rinpol	846.00		NIST Webbook
rinpol	816.00		NIST Webbook

ripol	832.00		NIST Webbook
ripol	828.00		NIST Webbook
ripol	837.40		NIST Webbook
ripol	837.40		NIST Webbook
ripol	801.00		NIST Webbook
ripol	816.00		NIST Webbook
ripol	817.00		NIST Webbook
ripol	801.00		NIST Webbook
ripol	796.00		NIST Webbook
ripol	796.00		NIST Webbook
ripol	796.00		NIST Webbook
ripol	1313.00		NIST Webbook
ripol	1299.00		NIST Webbook
ripol	1354.00		NIST Webbook
ripol	1315.00		NIST Webbook
ripol	1319.00		NIST Webbook
ripol	1313.00		NIST Webbook
ripol	1365.00		NIST Webbook
ripol	1331.00		NIST Webbook
ripol	1341.00		NIST Webbook
ripol	1318.00		NIST Webbook
ripol	1318.00		NIST Webbook
ripol	1318.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1341.00		NIST Webbook
tb	418.00	K	NIST Webbook
tb	418.20	K	NIST Webbook
tc	592.13	K	Joback Method
tf	236.92	K	Joback Method
vc	0.333	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.10	J/mol×K	404.64	Joback Method
cpg	157.93	J/mol×K	435.89	Joback Method
cpg	164.55	J/mol×K	467.14	Joback Method
cpg	170.96	J/mol×K	498.39	Joback Method
cpg	177.14	J/mol×K	529.63	Joback Method
cpg	183.10	J/mol×K	560.88	Joback Method

cpg	188.84	J/mol×K	592.13	Joback Method
dvisc	0.0027868	Paxs	236.92	Joback Method
dvisc	0.0016136	Paxs	264.87	Joback Method
dvisc	0.0010371	Paxs	292.83	Joback Method
dvisc	0.0007199	Paxs	320.78	Joback Method
dvisc	0.0005298	Paxs	348.73	Joback Method
dvisc	0.0004081	Paxs	376.69	Joback Method
dvisc	0.0003259	Paxs	404.64	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=C542585&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C542585&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>
<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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