

# Butanoic acid, 3-chloroprop-2-enyl ester

<b>Inchi:</b>	InChI=1S/C7H11ClO2/c1-2-4-7(9)10-6-3-5-8/h3,5H,2,4,6H2,1H3/b5-3+
<b>InchiKey:</b>	RVCJBAWEOOBVCN-HWKANZROSA-N
<b>Formula:</b>	C7H11ClO2
<b>SMILES:</b>	CCCC(=O)OCC=CCl
<b>Mol. weight [g/mol]:</b>	162.61

## Physical Properties

Property code	Value	Unit	Source
gf	-157.57	kJ/mol	Joback Method
hf	-331.13	kJ/mol	Joback Method
hfus	21.07	kJ/mol	Joback Method
hvap	44.67	kJ/mol	Joback Method
log10ws	-2.12		Crippen Method
logp	2.082		Crippen Method
mcvol	124.870	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
tb	477.44	K	Joback Method
tc	668.66	K	Joback Method
tf	265.65	K	Joback Method
vc	0.480	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.14	J/molxK	477.44	Joback Method
cpg	295.25	J/molxK	636.79	Joback Method
cpg	286.73	J/molxK	604.92	Joback Method
cpg	277.76	J/molxK	573.05	Joback Method
cpg	268.35	J/molxK	541.18	Joback Method
cpg	258.48	J/molxK	509.31	Joback Method
cpg	303.36	J/molxK	668.66	Joback Method
dvisc	0.0002365	Paxs	477.44	Joback Method
dvisc	0.0003032	Paxs	442.14	Joback Method
dvisc	0.0004058	Paxs	406.84	Joback Method

dvisc	0.0005741	Paxs	371.54	Joback Method
dvisc	0.0008735	Paxs	336.25	Joback Method
dvisc	0.0014665	Paxs	300.95	Joback Method
dvisc	0.0028256	Paxs	265.65	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=U299127&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299127&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>hvac:</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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