

# Butanoic acid, 4-chloro, 2-propenyl ester

<b>Inchi:</b>	InChI=1S/C7H11ClO2/c1-2-6-10-7(9)4-3-5-8/h2H,1,3-6H2
<b>InchiKey:</b>	NSCJTNOFIYBWFN-UHFFFAOYSA-N
<b>Formula:</b>	C7H11ClO2
<b>SMILES:</b>	C=CCOC(=O)CCCCl
<b>Mol. weight [g/mol]:</b>	162.61

## Physical Properties

Property code	Value	Unit	Source
gf	-149.95	kJ/mol	Joback Method
hf	-322.92	kJ/mol	Joback Method
hfus	19.59	kJ/mol	Joback Method
hvap	44.05	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	1.735		Crippen Method
mcvol	124.870	ml/mol	McGowan Method
pc	2956.90	kPa	Joback Method
ripol	1097.00		NIST Webbook
ripol	1097.00		NIST Webbook
ripol	1077.00		NIST Webbook
ripol	1105.00		NIST Webbook
ripol	1692.00		NIST Webbook
ripol	1671.00		NIST Webbook
tb	469.96	K	Joback Method
tc	656.31	K	Joback Method
tf	268.97	K	Joback Method
vc	0.481	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.36	J/mol×K	469.96	Joback Method
cpg	258.49	J/mol×K	501.02	Joback Method
cpg	268.20	J/mol×K	532.08	Joback Method
cpg	277.49	J/mol×K	563.14	Joback Method

cpg	286.38	J/mol×K	594.19	Joback Method
cpg	294.86	J/mol×K	625.25	Joback Method
cpg	302.94	J/mol×K	656.31	Joback Method
dvisc	0.0028258	Paxs	268.97	Joback Method
dvisc	0.0015592	Paxs	302.47	Joback Method
dvisc	0.0009687	Paxs	335.97	Joback Method
dvisc	0.0006561	Paxs	369.47	Joback Method
dvisc	0.0004741	Paxs	402.96	Joback Method
dvisc	0.0003601	Paxs	436.46	Joback Method
dvisc	0.0002844	Paxs	469.96	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=R28938&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R28938&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>mvol:</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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