

# 5-Chlorovaleric acid, but-3-yn-2-yl ester

<b>Inchi:</b>	InChI=1S/C9H13ClO2/c1-3-8(2)12-9(11)6-4-5-7-10/h1,8H,4-7H2,2H3
<b>InchiKey:</b>	DKDCXIDSBYMDQQ-UHFFFAOYSA-N
<b>Formula:</b>	C9H13ClO2
<b>SMILES:</b>	C#CC(C)OC(=O)CCCCl
<b>Mol. weight [g/mol]:</b>	188.65

## Physical Properties

Property code	Value	Unit	Source
gf	-0.32	kJ/mol	Joback Method
hf	-203.01	kJ/mol	Joback Method
hfus	25.50	kJ/mol	Joback Method
hvap	48.64	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	1.960		Crippen Method
mcvol	148.750	ml/mol	McGowan Method
pc	2721.17	kPa	Joback Method
rinsol	1291.10		NIST Webbook
tb	508.72	K	Joback Method
tc	703.70	K	Joback Method
tf	325.24	K	Joback Method
vc	0.569	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.47	J/mol×K	508.72	Joback Method
cpg	329.23	J/mol×K	541.22	Joback Method
cpg	340.44	J/mol×K	573.71	Joback Method
cpg	351.11	J/mol×K	606.21	Joback Method
cpg	361.26	J/mol×K	638.70	Joback Method
cpg	370.89	J/mol×K	671.20	Joback Method
cpg	380.02	J/mol×K	703.70	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=U292473&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292473&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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