

# Chloromethyl 5-chloropentanoate

<b>Other names:</b>	5-Chloropentanoic acid, chloromethyl ester Monochloromethyl 5-chloropentanoate
<b>Inchi:</b>	InChI=1S/C6H10Cl2O2/c7-4-2-1-3-6(9)10-5-8/h1-5H2
<b>InchiKey:</b>	VQDRONCNGCJOGI-UHFFFAOYSA-N
<b>Formula:</b>	C6H10Cl2O2
<b>SMILES:</b>	O=C(CCCCCI)OCCI
<b>Mol. weight [g/mol]:</b>	185.05
<b>CAS:</b>	80482-35-5

## Physical Properties

Property code	Value	Unit	Source
gf	-258.14	kJ/mol	Joback Method
hf	-443.45	kJ/mol	Joback Method
hfus	22.48	kJ/mol	Joback Method
hvap	46.88	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	2.135		Crippen Method
mcvol	127.320	ml/mol	McGowan Method
pc	3012.33	kPa	Joback Method
rinpol	1227.00		NIST Webbook
rinpol	1214.00		NIST Webbook
rinpol	1228.00		NIST Webbook
rinpol	1227.00		NIST Webbook
rinpol	1225.00		NIST Webbook
ripol	1882.00		NIST Webbook
ripol	1851.00		NIST Webbook
ripol	1904.00		NIST Webbook
ripol	1867.00		NIST Webbook
ripol	1851.00		NIST Webbook
tb	487.83	K	Joback Method
tc	678.17	K	Joback Method
tf	289.38	K	Joback Method
vc	0.493	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.95	J/molxK	487.83	Joback Method
cpg	258.21	J/molxK	519.55	Joback Method
cpg	267.08	J/molxK	551.28	Joback Method
cpg	275.57	J/molxK	583.00	Joback Method
cpg	283.68	J/molxK	614.72	Joback Method
cpg	291.42	J/molxK	646.44	Joback Method
cpg	298.78	J/molxK	678.17	Joback Method
dvisc	0.0028553	Paxs	289.38	Joback Method
dvisc	0.0016272	Paxs	322.45	Joback Method
dvisc	0.0010297	Paxs	355.53	Joback Method
dvisc	0.0007043	Paxs	388.61	Joback Method
dvisc	0.0005113	Paxs	421.68	Joback Method
dvisc	0.0003889	Paxs	454.75	Joback Method
dvisc	0.0003070	Paxs	487.83	Joback Method

## Sources

<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>
<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=C80482355&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C80482355&amp;Units=SI</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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