

# Chloromethyl 6-chlorohexanoate

<b>Other names:</b>	6-Chlorohexanoic acid, chloromethyl ester
<b>Inchi:</b>	InChI=1S/C7H12Cl2O2/c8-5-3-1-2-4-7(10)11-6-9/h1-6H2
<b>InchiKey:</b>	NFZSDYANLAMKQW-UHFFFAOYSA-N
<b>Formula:</b>	C7H12Cl2O2
<b>SMILES:</b>	O=C(CCCCCCCl)OCCl
<b>Mol. weight [g/mol]:</b>	199.07
<b>CAS:</b>	80418-57-1

## Physical Properties

Property code	Value	Unit	Source
gf	-249.72	kJ/mol	Joback Method
hf	-464.09	kJ/mol	Joback Method
hfus	25.07	kJ/mol	Joback Method
hvap	49.10	kJ/mol	Joback Method
log10ws	-2.42		Crippen Method
logp	2.525		Crippen Method
mcvol	141.410	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
rinpol	1327.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1341.00		NIST Webbook
rinpol	1337.00		NIST Webbook
ripol	1961.00		NIST Webbook
ripol	1979.00		NIST Webbook
ripol	2002.00		NIST Webbook
tb	510.71	K	Joback Method
tc	698.85	K	Joback Method
tf	300.65	K	Joback Method
vc	0.549	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.67	J/molxK	510.71	Joback Method

cpg	301.04	J/molxK	542.07	Joback Method
cpg	310.97	J/molxK	573.42	Joback Method
cpg	320.46	J/molxK	604.78	Joback Method
cpg	329.52	J/molxK	636.14	Joback Method
cpg	338.15	J/molxK	667.50	Joback Method
cpg	346.35	J/molxK	698.85	Joback Method
dvisc	0.0028037	Paxs	300.65	Joback Method
dvisc	0.0015651	Paxs	335.66	Joback Method
dvisc	0.0009754	Paxs	370.67	Joback Method
dvisc	0.0006596	Paxs	405.68	Joback Method
dvisc	0.0004746	Paxs	440.69	Joback Method
dvisc	0.0003585	Paxs	475.70	Joback Method
dvisc	0.0002814	Paxs	510.71	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C80418571&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C80418571&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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