

# 7-chloroheptyl chloroacetate

<b>Other names:</b>	1-Heptanol, 7-chloro, chloroacetate
<b>Inchi:</b>	InChI=1S/C9H16Cl2O2/c10-6-4-2-1-3-5-7-13-9(12)8-11/h1-8H2
<b>InchiKey:</b>	WXIUUGACTTYPLC-UHFFFAOYSA-N
<b>Formula:</b>	C9H16Cl2O2
<b>SMILES:</b>	O=C(CCl)OCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	227.13

## Physical Properties

Property code	Value	Unit	Source
gf	-232.88	kJ/mol	Joback Method
hf	-505.37	kJ/mol	Joback Method
hfus	30.25	kJ/mol	Joback Method
hvap	53.55	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	2.958		Crippen Method
mcvol	169.590	ml/mol	McGowan Method
pc	2246.13	kPa	Joback Method
rinpol	1559.00		NIST Webbook
rinpol	1563.00		NIST Webbook
rinpol	1563.00		NIST Webbook
rinpol	1564.00		NIST Webbook
rinpol	1559.00		NIST Webbook
ripol	2333.00		NIST Webbook
ripol	2325.00		NIST Webbook
ripol	2308.00		NIST Webbook
tb	556.47	K	Joback Method
tc	740.45	K	Joback Method
tf	323.19	K	Joback Method
vc	0.661	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	379.98	J/mol×K	556.47	Joback Method

cpg	435.85	J/molxK	709.79	Joback Method
cpg	425.73	J/molxK	679.13	Joback Method
cpg	415.09	J/molxK	648.46	Joback Method
cpg	403.92	J/molxK	617.80	Joback Method
cpg	392.22	J/molxK	587.13	Joback Method
cpg	445.47	J/molxK	740.45	Joback Method
dvisc	0.0002308	Paxs	556.47	Joback Method
dvisc	0.0002970	Paxs	517.59	Joback Method
dvisc	0.0003982	Paxs	478.71	Joback Method
dvisc	0.0005623	Paxs	439.83	Joback Method
dvisc	0.0008489	Paxs	400.95	Joback Method
dvisc	0.0014003	Paxs	362.07	Joback Method
dvisc	0.0026055	Paxs	323.19	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=R111834&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R111834&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

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

**vc:** Critical Volume

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