

# 3-chloropropyl dichloroacetate

<b>Other names:</b>	1-Propanol, 3-chloro, dichloroacetate
<b>Inchi:</b>	InChI=1S/C5H7Cl3O2/c6-2-1-3-10-5(9)4(7)8/h4H,1-3H2
<b>InchiKey:</b>	UFOHDQGORXKWPB-UHFFFAOYSA-N
<b>Formula:</b>	C5H7Cl3O2
<b>SMILES:</b>	O=C(OCCCCI)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	205.47

## Physical Properties

Property code	Value	Unit	Source
gf	-280.93	kJ/mol	Joback Method
hf	-443.83	kJ/mol	Joback Method
hfus	20.56	kJ/mol	Joback Method
hvap	48.65	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.962		Crippen Method
mcvol	125.470	ml/mol	McGowan Method
pc	3246.73	kPa	Joback Method
rinpol	1190.00		NIST Webbook
rinpol	1209.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1197.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1212.00		NIST Webbook
ripol	1923.00		NIST Webbook
ripol	1978.00		NIST Webbook
ripol	1971.00		NIST Webbook
ripol	1954.00		NIST Webbook
ripol	1923.00		NIST Webbook
ripol	1959.00		NIST Webbook
tb	501.94	K	Joback Method
tc	704.56	K	Joback Method
tf	293.03	K	Joback Method
vc	0.480	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.25	J/molxK	501.94	Joback Method
cpg	266.84	J/molxK	670.79	Joback Method
cpg	260.47	J/molxK	637.02	Joback Method
cpg	253.73	J/molxK	603.25	Joback Method
cpg	246.61	J/molxK	569.48	Joback Method
cpg	239.12	J/molxK	535.71	Joback Method
cpg	272.85	J/molxK	704.56	Joback Method
dvisc	0.0003111	Paxs	501.94	Joback Method
dvisc	0.0004006	Paxs	467.12	Joback Method
dvisc	0.0005371	Paxs	432.30	Joback Method
dvisc	0.0007582	Paxs	397.49	Joback Method
dvisc	0.0011435	Paxs	362.67	Joback Method
dvisc	0.0018820	Paxs	327.85	Joback Method
dvisc	0.0034866	Paxs	293.03	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=R112580&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R112580&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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