

# 2-chloropropyl trichloroacetate

<b>Other names:</b>	1-Propanol, 2-chloro, trichloroacetate
<b>Inchi:</b>	InChI=1S/C5H6Cl4O2/c1-3(6)2-11-4(10)5(7,8)9/h3H,2H2,1H3
<b>InchiKey:</b>	GXXHSZQJOWRTGY-UHFFFAOYSA-N
<b>Formula:</b>	C5H6Cl4O2
<b>SMILES:</b>	CC(Cl)COC(=O)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	239.91

## Physical Properties

Property code	Value	Unit	Source
gf	-290.02	kJ/mol	Joback Method
hf	-468.32	kJ/mol	Joback Method
hfus	17.34	kJ/mol	Joback Method
hvap	51.74	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.527		Crippen Method
mcvol	137.710	ml/mol	McGowan Method
pc	3181.14	kPa	Joback Method
rinpol	1217.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1172.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1210.00		NIST Webbook
ripol	1765.00		NIST Webbook
ripol	1765.00		NIST Webbook
ripol	1778.00		NIST Webbook
ripol	1784.00		NIST Webbook
ripol	1794.00		NIST Webbook
ripol	1809.00		NIST Webbook
tb	536.14	K	Joback Method
tc	757.08	K	Joback Method
tf	325.37	K	Joback Method
vc	0.518	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.96	J/molxK	536.14	Joback Method
cpg	263.88	J/molxK	572.96	Joback Method
cpg	271.22	J/molxK	609.79	Joback Method
cpg	278.00	J/molxK	646.61	Joback Method
cpg	284.24	J/molxK	683.43	Joback Method
cpg	289.98	J/molxK	720.26	Joback Method
cpg	295.24	J/molxK	757.08	Joback Method
dvisc	0.0035419	Paxs	325.37	Joback Method
dvisc	0.0018810	Paxs	360.50	Joback Method
dvisc	0.0011178	Paxs	395.63	Joback Method
dvisc	0.0007231	Paxs	430.75	Joback Method
dvisc	0.0004995	Paxs	465.88	Joback Method
dvisc	0.0003634	Paxs	501.01	Joback Method
dvisc	0.0002757	Paxs	536.14	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=R112560&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R112560&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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