

# 3-chloropropyl trichloroacetate

<b>Other names:</b>	1-Propanol, 3-chloro, trichloroacetate
<b>Inchi:</b>	InChI=1S/C5H6Cl4O2/c6-2-1-3-11-4(10)5(7,8)9/h1-3H2
<b>InchiKey:</b>	SUOYAKIYUAIFGY-UHFFFAOYSA-N
<b>Formula:</b>	C5H6Cl4O2
<b>SMILES:</b>	O=C(OCCCCI)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	239.91

## Physical Properties

Property code	Value	Unit	Source
gf	-287.58	kJ/mol	Joback Method
hf	-463.04	kJ/mol	Joback Method
hfus	20.87	kJ/mol	Joback Method
hvap	52.12	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	2.529		Crippen Method
mcvol	137.710	ml/mol	McGowan Method
pc	3152.62	kPa	Joback Method
rinpol	1294.00		NIST Webbook
rinpol	1288.00		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1251.00		NIST Webbook
rinpol	1252.00		NIST Webbook
rinpol	1251.00		NIST Webbook
ripol	1895.00		NIST Webbook
ripol	1961.00		NIST Webbook
ripol	1944.00		NIST Webbook
ripol	1931.00		NIST Webbook
ripol	1921.00		NIST Webbook
ripol	1895.00		NIST Webbook
tb	536.58	K	Joback Method
tc	752.64	K	Joback Method
tf	340.37	K	Joback Method
vc	0.524	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.56	J/molxK	536.58	Joback Method
cpg	263.24	J/molxK	572.59	Joback Method
cpg	270.37	J/molxK	608.60	Joback Method
cpg	276.98	J/molxK	644.61	Joback Method
cpg	283.08	J/molxK	680.62	Joback Method
cpg	288.70	J/molxK	716.63	Joback Method
cpg	293.88	J/molxK	752.64	Joback Method
dvisc	0.0027219	Paxs	340.37	Joback Method
dvisc	0.0015950	Paxs	373.07	Joback Method
dvisc	0.0010187	Paxs	405.77	Joback Method
dvisc	0.0006957	Paxs	438.48	Joback Method
dvisc	0.0005009	Paxs	471.18	Joback Method
dvisc	0.0003763	Paxs	503.88	Joback Method
dvisc	0.0002928	Paxs	536.58	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R112595&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R112595&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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