

# 3-chlorobutyl dichloroacetate

<b>Other names:</b>	1-Butanol, 3-chloro, dichloroacetate
<b>Inchi:</b>	InChI=1S/C6H9Cl3O2/c1-4(7)2-3-11-6(10)5(8)9/h4-5H,2-3H2,1H3
<b>InchiKey:</b>	WOMWKYYCERCSDL-UHFFFAOYSA-N
<b>Formula:</b>	C6H9Cl3O2
<b>SMILES:</b>	CC(Cl)CCOC(=O)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	219.49

## Physical Properties

Property code	Value	Unit	Source
gf	-274.95	kJ/mol	Joback Method
hf	-469.75	kJ/mol	Joback Method
hfus	19.63	kJ/mol	Joback Method
hvap	50.48	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.351		Crippen Method
mcvol	139.560	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
rinpol	1252.00		NIST Webbook
rinpol	1257.00		NIST Webbook
rinpol	1231.00		NIST Webbook
rinpol	1236.00		NIST Webbook
rinpol	1231.00		NIST Webbook
ripol	1955.00		NIST Webbook
ripol	1961.00		NIST Webbook
ripol	1906.00		NIST Webbook
ripol	1939.00		NIST Webbook
ripol	1942.00		NIST Webbook
tb	524.38	K	Joback Method
tc	728.53	K	Joback Method
tf	289.30	K	Joback Method
vc	0.530	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.66	J/molxK	524.38	Joback Method
cpg	281.98	J/molxK	558.41	Joback Method
cpg	290.84	J/molxK	592.43	Joback Method
cpg	299.23	J/molxK	626.46	Joback Method
cpg	307.16	J/molxK	660.48	Joback Method
cpg	314.64	J/molxK	694.51	Joback Method
cpg	321.66	J/molxK	728.53	Joback Method
dvisc	0.0045405	Paxs	289.30	Joback Method
dvisc	0.0021323	Paxs	328.48	Joback Method
dvisc	0.0011764	Paxs	367.66	Joback Method
dvisc	0.0007278	Paxs	406.84	Joback Method
dvisc	0.0004899	Paxs	446.02	Joback Method
dvisc	0.0003515	Paxs	485.20	Joback Method
dvisc	0.0002651	Paxs	524.38	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=R111587&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R111587&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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