

# 4-chlorobutyl trichloroacetate

<b>Other names:</b>	1-Butanol, 4-chloro, trichloroacetate
<b>Inchi:</b>	InChI=1S/C6H8Cl4O2/c7-3-1-2-4-12-5(11)6(8,9)10/h1-4H2
<b>InchiKey:</b>	JMIOMLKQYQMROM-UHFFFAOYSA-N
<b>Formula:</b>	C6H8Cl4O2
<b>SMILES:</b>	O=C(OCCCCCl)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	253.94

## Physical Properties

Property code	Value	Unit	Source
gf	-279.16	kJ/mol	Joback Method
hf	-483.68	kJ/mol	Joback Method
hfus	23.46	kJ/mol	Joback Method
hvap	54.35	kJ/mol	Joback Method
log10ws	-2.91		Crippen Method
logp	2.919		Crippen Method
mcvol	151.800	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	1413.00		NIST Webbook
rinpol	1403.00		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1364.00		NIST Webbook
rinpol	1364.00		NIST Webbook
ripol	2023.00		NIST Webbook
ripol	2023.00		NIST Webbook
ripol	2050.00		NIST Webbook
ripol	2061.00		NIST Webbook
ripol	2079.00		NIST Webbook
ripol	2093.00		NIST Webbook
tb	559.46	K	Joback Method
tc	771.93	K	Joback Method
tf	351.64	K	Joback Method
vc	0.581	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	297.80	J/molxK	559.46	Joback Method
cpg	306.58	J/molxK	594.87	Joback Method
cpg	314.75	J/molxK	630.28	Joback Method
cpg	322.34	J/molxK	665.70	Joback Method
cpg	329.39	J/molxK	701.11	Joback Method
cpg	335.92	J/molxK	736.52	Joback Method
cpg	341.96	J/molxK	771.93	Joback Method
dvisc	0.0025384	Paxs	351.64	Joback Method
dvisc	0.0014598	Paxs	386.28	Joback Method
dvisc	0.0009195	Paxs	420.91	Joback Method
dvisc	0.0006214	Paxs	455.55	Joback Method
dvisc	0.0004438	Paxs	490.19	Joback Method
dvisc	0.0003314	Paxs	524.82	Joback Method
dvisc	0.0002566	Paxs	559.46	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R111621&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R111621&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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