

# 6-chlorooctyl trichloroacetate

<b>Other names:</b>	1-Octanol, 6-chloro, trichloroacetate
<b>Inchi:</b>	InChI=1S/C10H16Cl4O2/c1-2-8(11)6-4-3-5-7-16-9(15)10(12,13)14/h8H,2-7H2,1H3
<b>InchiKey:</b>	VOIYMCGTBCBIGL-UHFFFAOYSA-N
<b>Formula:</b>	C10H16Cl4O2
<b>SMILES:</b>	CCC(Cl)CCCCCOC(=O)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	310.05

## Physical Properties

Property code	Value	Unit	Source
gf	-247.92	kJ/mol	Joback Method
hf	-571.52	kJ/mol	Joback Method
hfus	30.29	kJ/mol	Joback Method
hvap	62.87	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.478		Crippen Method
mcpol	208.160	ml/mol	McGowan Method
pc	1970.05	kPa	Joback Method
rinpol	1753.00		NIST Webbook
rinpol	1778.00		NIST Webbook
rinpol	1789.00		NIST Webbook
rinpol	1766.00		NIST Webbook
ripol	2345.00		NIST Webbook
ripol	2345.00		NIST Webbook
ripol	2387.00		NIST Webbook
ripol	2369.00		NIST Webbook
tb	650.54	K	Joback Method
tc	854.25	K	Joback Method
tf	381.72	K	Joback Method
vc	0.798	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.42	J/mol×K	650.54	Joback Method

cpg	496.64	J/mol×K	684.49	Joback Method
cpg	508.09	J/mol×K	718.44	Joback Method
cpg	518.80	J/mol×K	752.39	Joback Method
cpg	528.80	J/mol×K	786.35	Joback Method
cpg	538.14	J/mol×K	820.30	Joback Method
cpg	546.84	J/mol×K	854.25	Joback Method
dvisc	0.0022272	Paxs	381.72	Joback Method
dvisc	0.0010938	Paxs	426.52	Joback Method
dvisc	0.0006150	Paxs	471.33	Joback Method
dvisc	0.0003821	Paxs	516.13	Joback Method
dvisc	0.0002562	Paxs	560.93	Joback Method
dvisc	0.0001822	Paxs	605.74	Joback Method
dvisc	0.0001358	Paxs	650.54	Joback Method

## Sources

<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=R112253&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R112253&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>

## 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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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