

# 1,1,3-Trichlorocyclohexane

Inchi:	InChI=1S/C6H9Cl3/c7-5-2-1-3-6(8,9)4-5/h5H,1-4H2
InchiKey:	OYXGZLXUMFSCHC-UHFFFAOYSA-N
Formula:	C6H9Cl3
SMILES:	C1C1CCCC(Cl)(Cl)C1
Mol. weight [g/mol]:	187.50

## Physical Properties

Property code	Value	Unit	Source
gf	-24.90	kJ/mol	Joback Method
hf	-165.17	kJ/mol	Joback Method
hfus	10.49	kJ/mol	Joback Method
hvap	41.07	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.342		Crippen Method
mcvol	121.260	ml/mol	McGowan Method
pc	3509.58	kPa	Joback Method
rinpol	1143.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1142.00		NIST Webbook
tb	464.09	K	Joback Method
tc	702.00	K	Joback Method
tf	274.18	K	Joback Method
vc	0.449	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.11	J/molxK	464.09	Joback Method
cpg	233.87	J/molxK	503.74	Joback Method
cpg	246.48	J/molxK	543.39	Joback Method
cpg	258.06	J/molxK	583.04	Joback Method

cpg	268.76	J/mol×K	622.70	Joback Method
cpg	278.72	J/mol×K	662.35	Joback Method
cpg	288.06	J/mol×K	702.00	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=R591498&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R591498&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>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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