

# Cyclohexene, 3-trichloromethyl

**Inchi:** InChI=1S/C7H9Cl3/c8-7(9,10)6-4-2-1-3-5-6/h2,4,6H,1,3,5H2  
**InchiKey:** DMVOVEXDYGSKIE-UHFFFAOYSA-N  
**Formula:** C7H9Cl3  
**SMILES:** ClC(Cl)(Cl)C1C=CCCC1  
**Mol. weight [g/mol]:** 199.50

## Physical Properties

Property code	Value	Unit	Source
gf	29.52	kJ/mol	Joback Method
hf	-131.68	kJ/mol	Joback Method
hfus	12.12	kJ/mol	Joback Method
hvap	43.76	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.713		Crippen Method
mcvol	131.050	ml/mol	McGowan Method
pc	3299.15	kPa	Joback Method
rinpol	1167.00		NIST Webbook
rinpol	1167.00		NIST Webbook
rinpol	1167.00		NIST Webbook
tb	487.33	K	Joback Method
tc	729.49	K	Joback Method
tf	268.97	K	Joback Method
vc	0.482	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.34	J/mol×K	487.33	Joback Method
cpg	261.70	J/mol×K	527.69	Joback Method
cpg	274.87	J/mol×K	568.05	Joback Method
cpg	286.92	J/mol×K	608.41	Joback Method
cpg	297.92	J/mol×K	648.77	Joback Method
cpg	307.95	J/mol×K	689.13	Joback Method
cpg	317.09	J/mol×K	729.49	Joback Method

dvisc	0.0062681	Paxs	268.97	Joback Method
dvisc	0.0028832	Paxs	305.36	Joback Method
dvisc	0.0015648	Paxs	341.76	Joback Method
dvisc	0.0009552	Paxs	378.15	Joback Method
dvisc	0.0006359	Paxs	414.54	Joback Method
dvisc	0.0004521	Paxs	450.94	Joback Method
dvisc	0.0003382	Paxs	487.33	Joback Method

## Sources

<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=R514946&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R514946&amp;Units=SI</a>
<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>

## 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>mvol:</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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