

# Cyclohexane, trichloromethyl

**Inchi:** InChI=1S/C7H11Cl3/c8-7(9,10)6-4-2-1-3-5-6/h6H,1-5H2  
**InchiKey:** ANUMBTODEQDFNN-UHFFFAOYSA-N  
**Formula:** C7H11Cl3  
**SMILES:** ClC(Cl)(Cl)C1CCCCC1  
**Mol. weight [g/mol]:** 201.52

## Physical Properties

Property code	Value	Unit	Source
gf	-0.44	kJ/mol	Joback Method
hf	-189.46	kJ/mol	Joback Method
hfus	10.90	kJ/mol	Joback Method
hvap	43.46	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.937		Crippen Method
mcvol	135.350	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
rinpol	1224.00		NIST Webbook
rinpol	1224.00		NIST Webbook
rinpol	1224.00		NIST Webbook
tb	488.17	K	Joback Method
tc	727.74	K	Joback Method
tf	268.21	K	Joback Method
vc	0.496	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.69	J/mol×K	488.17	Joback Method
cpg	330.99	J/mol×K	687.81	Joback Method
cpg	319.71	J/mol×K	647.88	Joback Method
cpg	307.41	J/mol×K	607.95	Joback Method
cpg	294.02	J/mol×K	568.03	Joback Method
cpg	279.47	J/mol×K	528.10	Joback Method
cpg	341.33	J/mol×K	727.74	Joback Method

dvisc	0.0003409	Paxs	488.17	Joback Method
dvisc	0.0004636	Paxs	451.51	Joback Method
dvisc	0.0006657	Paxs	414.85	Joback Method
dvisc	0.0010253	Paxs	378.19	Joback Method
dvisc	0.0017325	Paxs	341.53	Joback Method
dvisc	0.0033213	Paxs	304.87	Joback Method
dvisc	0.0076066	Paxs	268.21	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=R514931&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R514931&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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