

# 1-trans-2-cis-3-Trichlorocyclohexane

<b>Inchi:</b>	InChI=1S/C6H9Cl3/c7-4-2-1-3-5(8)6(4)9/h4-6H,1-3H2/t4-,5+,6+
<b>InchiKey:</b>	PJBPZADYKKBAX-FMCRUOTFSA-N
<b>Formula:</b>	C6H9Cl3
<b>SMILES:</b>	C1C1CCCC(Cl)C1Cl
<b>Mol. weight [g/mol]:</b>	187.50

## Physical Properties

Property code	Value	Unit	Source
gf	-27.12	kJ/mol	Joback Method
hf	-200.75	kJ/mol	Joback Method
hfus	17.86	kJ/mol	Joback Method
hvap	41.92	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.993		Crippen Method
mvol	121.260	ml/mol	McGowan Method
pc	3206.41	kPa	Joback Method
rinpol	1192.00		NIST Webbook
rinpol	1192.00		NIST Webbook
tb	459.18	K	Joback Method
tc	686.32	K	Joback Method
tf	246.04	K	Joback Method
vc	0.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.44	J/molxK	459.18	Joback Method
cpg	234.51	J/molxK	497.04	Joback Method
cpg	247.80	J/molxK	534.89	Joback Method
cpg	260.31	J/molxK	572.75	Joback Method
cpg	272.06	J/molxK	610.61	Joback Method
cpg	283.07	J/molxK	648.47	Joback Method
cpg	293.35	J/molxK	686.32	Joback Method
dvisc	0.0027049	Paxs	246.04	Joback Method

dvisc	0.0016047	Paxs	281.56	Joback Method
dvisc	0.0010701	Paxs	317.09	Joback Method
dvisc	0.0007744	Paxs	352.61	Joback Method
dvisc	0.0005945	Paxs	388.13	Joback Method
dvisc	0.0004771	Paxs	423.66	Joback Method
dvisc	0.0003962	Paxs	459.18	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R591869&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R591869&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/65-707-5/1-trans-2-cis-3-Trichlorocyclohexane.pdf>

Generated by Cheméo on 2024-04-26 10:46:34.49871355 +0000 UTC m=+16417643.419290917.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.