

# Cyclohexane, 1,3-dichloro-, trans-

<b>Other names:</b>	trans-1,3-Dichlorocyclohexane (E)-1,3-Dichlorocyclohexane
<b>Inchi:</b>	InChI=1S/C6H10Cl2/c7-5-2-1-3-6(8)4-5/h5-6H,1-4H2/t5-,6-/m0/s1
<b>InchiKey:</b>	HXWLCXAXTOJPJL-WDSKDSINSA-N
<b>Formula:</b>	C6H10Cl2
<b>SMILES:</b>	C1C1CCCC(Cl)C1
<b>Mol. weight [g/mol]:</b>	153.05
<b>CAS:</b>	24955-62-2

## Physical Properties

Property code	Value	Unit	Source
gf	-7.48	kJ/mol	Joback Method
hf	-164.67	kJ/mol	Joback Method
hfus	12.60	kJ/mol	Joback Method
hvap	37.84	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	2.775		Crippen Method
mcvol	109.020	ml/mol	McGowan Method
pc	3476.55	kPa	Joback Method
rinpol	1049.00		NIST Webbook
rinpol	1048.00		NIST Webbook
rinpol	1048.00		NIST Webbook
rinpol	1048.00		NIST Webbook
tb	426.42	K	Joback Method
tc	646.96	K	Joback Method
tf	220.36	K	Joback Method
vc	0.402	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	192.32	J/molxK	426.42	Joback Method
cpg	206.66	J/molxK	463.18	Joback Method
cpg	220.23	J/molxK	499.93	Joback Method

cpg	233.04	J/molxK	536.69	Joback Method
cpg	245.11	J/molxK	573.44	Joback Method
cpg	256.46	J/molxK	610.20	Joback Method
cpg	267.11	J/molxK	646.96	Joback Method
dvisc	0.0039986	Paxs	220.36	Joback Method
dvisc	0.0020466	Paxs	254.70	Joback Method
dvisc	0.0012282	Paxs	289.05	Joback Method
dvisc	0.0008215	Paxs	323.39	Joback Method
dvisc	0.0005936	Paxs	357.73	Joback Method
dvisc	0.0004540	Paxs	392.08	Joback Method
dvisc	0.0003626	Paxs	426.42	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=C24955622&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24955622&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>
<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>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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