

# 1-trans-2-cis-3-cis-5-Tetrachlorocyclohexane

<b>Inchi:</b>	InChI=1S/C6H8Cl4/c7-3-1-4(8)6(10)5(9)2-3/h3-6H,1-2H2/t3-,4+,5-,6-
<b>InchiKey:</b>	KZUXDXMHLOTNTK-HMWJNGDSSA-N
<b>Formula:</b>	C6H8Cl4
<b>SMILES:</b>	C1C1CC(Cl)C(Cl)C(Cl)C1
<b>Mol. weight [g/mol]:</b>	221.94

## Physical Properties

Property code	Value	Unit	Source
gf	-46.76	kJ/mol	Joback Method
hf	-236.83	kJ/mol	Joback Method
hfus	23.13	kJ/mol	Joback Method
hvap	45.99	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	3.210		Crippen Method
mvol	133.500	ml/mol	McGowan Method
pc	2966.57	kPa	Joback Method
rinpol	1425.00		NIST Webbook
rinpol	1425.00		NIST Webbook
tb	491.94	K	Joback Method
tc	724.89	K	Joback Method
tf	271.72	K	Joback Method
vc	0.497	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.99	J/molxK	491.94	Joback Method
cpg	261.75	J/molxK	530.76	Joback Method
cpg	274.71	J/molxK	569.59	Joback Method
cpg	286.88	J/molxK	608.41	Joback Method
cpg	298.26	J/molxK	647.24	Joback Method
cpg	308.87	J/molxK	686.06	Joback Method
cpg	318.71	J/molxK	724.89	Joback Method
dvisc	0.0020679	Paxs	271.72	Joback Method

dvisc	0.0013689	Paxs	308.42	Joback Method
dvisc	0.0009893	Paxs	345.13	Joback Method
dvisc	0.0007610	Paxs	381.83	Joback Method
dvisc	0.0006130	Paxs	418.53	Joback Method
dvisc	0.0005113	Paxs	455.24	Joback Method
dvisc	0.0004381	Paxs	491.94	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R591849&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R591849&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>
<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

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