

# 1,1,2-cis-5-Tetrachlorocyclohexane

<b>Inchi:</b>	InChI=1S/C6H8Cl4/c7-4-1-2-5(8)6(9,10)3-4/h4-5H,1-3H2/t4-,5+/m0/s1
<b>InchiKey:</b>	SIJRRCMGPMBIB-CRCLSJGQSA-N
<b>Formula:</b>	C6H8Cl4
<b>SMILES:</b>	C1C1CCC(Cl)C(Cl)(Cl)C1
<b>Mol. weight [g/mol]:</b>	221.94

## Physical Properties

Property code	Value	Unit	Source
gf	-44.54	kJ/mol	Joback Method
hf	-201.25	kJ/mol	Joback Method
hfus	15.76	kJ/mol	Joback Method
hvap	45.15	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.559		Crippen Method
mcvol	133.500	ml/mol	McGowan Method
pc	3235.66	kPa	Joback Method
rinpol	1390.00		NIST Webbook
rinpol	1399.00		NIST Webbook
tb	496.85	K	Joback Method
tc	740.51	K	Joback Method
tf	299.86	K	Joback Method
vc	0.496	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.89	J/mol×K	496.85	Joback Method
cpg	260.03	J/mol×K	537.46	Joback Method
cpg	272.09	J/mol×K	578.07	Joback Method
cpg	283.20	J/mol×K	618.68	Joback Method
cpg	293.52	J/mol×K	659.29	Joback Method
cpg	303.18	J/mol×K	699.90	Joback Method
cpg	312.33	J/mol×K	740.51	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=R591592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R591592&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>h vap:</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>r in pol:</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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