

# Tetrachloro tetrahydro naphthalene

<b>Inchi:</b>	InChI=1S/C10H8Cl4/c11-7-5-3-1-2-4-6(5)8(12)10(14)9(7)13/h1-4H2
<b>InchiKey:</b>	WHHKXBGHEPIYII-UHFFFAOYSA-N
<b>Formula:</b>	C10H8Cl4
<b>SMILES:</b>	Clc1c(Cl)c(Cl)c2c(c1Cl)CCCC2
<b>Mol. weight [g/mol]:</b>	269.98
<b>CAS:</b>	1203-38-9

## Physical Properties

Property code	Value	Unit	Source
gf	106.22	kJ/mol	Joback Method
hf	-46.53	kJ/mol	Joback Method
hfus	25.50	kJ/mol	Joback Method
hvap	61.37	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	5.179		Crippen Method
mcvol	166.100	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
tb	645.18	K	Joback Method
tc	898.87	K	Joback Method
tf	429.82	K	Joback Method
vc	0.633	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.86	J/molxK	645.18	Joback Method
cpg	349.85	J/molxK	687.46	Joback Method
cpg	360.00	J/molxK	729.74	Joback Method
cpg	369.38	J/molxK	772.02	Joback Method
cpg	378.06	J/molxK	814.30	Joback Method
cpg	386.10	J/molxK	856.59	Joback Method
cpg	393.56	J/molxK	898.87	Joback Method
dvisc	0.0012085	Paxs	429.82	Joback Method
dvisc	0.0008975	Paxs	465.71	Joback Method

dvisc	0.0006955	Paxs	501.61	Joback Method
dvisc	0.0005576	Paxs	537.50	Joback Method
dvisc	0.0004596	Paxs	573.39	Joback Method
dvisc	0.0003875	Paxs	609.29	Joback Method
dvisc	0.0003330	Paxs	645.18	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1203389&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1203389&amp;Units=SI</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>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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