

# 1-Hydroxychlordene

<b>Other names:</b>	1,7,8,9,10,10-Hexachlorotricyclo[5.2.1.0 <sup>2,6</sup> ]deca-4,8-dien-3-ol 3-Hydroxychlordene 4,7-Methano-1H-inden-1-ol, 4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro- 4,7-Methanoinden-1-ol, 4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro- Chlordene hydroxide hydroxychlordene
<b>Inchi:</b>	InChI=1S/C10H6Cl6O/c11-6-7(12)9(14)5-3(1-2-4(5)17)8(6,13)10(9,15)16/h1-5,17H
<b>InchiKey:</b>	YQWCIPIEEBVRNY-UHFFFAOYSA-N
<b>Formula:</b>	C10H6Cl6O
<b>SMILES:</b>	<chem>OC1C=CC2C1C1(Cl)C(Cl)=C(Cl)C2(Cl)C1(Cl)Cl</chem>
<b>Mol. weight [g/mol]:</b>	354.87
<b>CAS:</b>	2597-11-7

## Physical Properties

Property code	Value	Unit	Source
gf	-3.87	kJ/mol	Joback Method
hf	-206.84	kJ/mol	Joback Method
hfus	29.22	kJ/mol	Joback Method
hvap	78.28	kJ/mol	Joback Method
log10ws	-5.46		Aqueous Solubility Prediction Method
log10ws	-5.46		Estimated Solubility Method
logp	3.995		Crippen Method
mcvol	189.890	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
rinpol	1955.00		NIST Webbook
rinpol	1955.00		NIST Webbook
rinpol	1955.00		NIST Webbook
tb	764.44	K	Joback Method
tc	1014.24	K	Joback Method
tf	578.64	K	Joback Method
vc	0.735	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.57	J/molxK	764.44	Joback Method
cpg	444.06	J/molxK	806.07	Joback Method
cpg	455.80	J/molxK	847.71	Joback Method
cpg	469.32	J/molxK	889.34	Joback Method
cpg	485.13	J/molxK	930.98	Joback Method
cpg	503.76	J/molxK	972.61	Joback Method
cpg	525.74	J/molxK	1014.24	Joback Method

## Sources

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2597117&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:**

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

**Estimated Solubility Method:**

[http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl\\_file/ci034243xsi20040112\\_053635.txt](http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt)

## 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>hvac:</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>mccvol:</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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