

# Naphthalene, 1,2,3,5,6,7-hexachloro

<b>Inchi:</b>	InChI=1S/C10H2Cl6/c11-5-1-3-4(8(14)9(5)15)2-6(12)10(16)7(3)13/h1-2H
<b>InchiKey:</b>	XZLJCGGEQLNWDT-UHFFFAOYSA-N
<b>Formula:</b>	C10H2Cl6
<b>SMILES:</b>	Clc1cc2c(Cl)c(Cl)c(Cl)cc2c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	334.84

## Physical Properties

Property code	Value	Unit	Source
gf	123.02	kJ/mol	Joback Method
hf	14.61	kJ/mol	Joback Method
hfus	35.56	kJ/mol	Joback Method
hvap	72.05	kJ/mol	Joback Method
log10ws	-7.39		Crippen Method
logp	6.760		Crippen Method
mcvol	181.980	ml/mol	McGowan Method
pc	2729.71	kPa	Joback Method
rinpol	2378.00		NIST Webbook
rinpol	2378.00		NIST Webbook
tb	728.32	K	Joback Method
tc	992.99	K	Joback Method
tf	516.22	K	Joback Method
vc	0.704	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.21	J/mol×K	728.32	Joback Method
cpg	331.53	J/mol×K	772.43	Joback Method
cpg	337.34	J/mol×K	816.54	Joback Method
cpg	342.69	J/mol×K	860.66	Joback Method
cpg	347.65	J/mol×K	904.77	Joback Method
cpg	352.28	J/mol×K	948.88	Joback Method
cpg	356.64	J/mol×K	992.99	Joback Method
dvisc	0.0008492	Paxs	516.22	Joback Method

dvisc	0.0006870	Paxs	551.57	Joback Method
dvisc	0.0005701	Paxs	586.92	Joback Method
dvisc	0.0004832	Paxs	622.27	Joback Method
dvisc	0.0004169	Paxs	657.62	Joback Method
dvisc	0.0003651	Paxs	692.97	Joback Method
dvisc	0.0003240	Paxs	728.32	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R128451&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R128451&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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