

# 1,1'-Biphenyl, 2,2',3,3',5,6'-hexachloro-

<b>Other names:</b>	2,2',3,3',5,6'-Hexachloro-1,1'-biphenyl PCB 135
<b>Inchi:</b>	InChI=1S/C12H4Cl6/c13-5-3-6(11(17)9(16)4-5)10-7(14)1-2-8(15)12(10)18/h1-4H
<b>InchiKey:</b>	UUTNFLRSJBQQJM-UHFFFAOYSA-N
<b>Formula:</b>	C12H4Cl6
<b>SMILES:</b>	Clc1cc(Cl)c(Cl)c(-c2c(Cl)ccc(Cl)c2Cl)c1
<b>Mol. weight [g/mol]:</b>	360.88
<b>CAS:</b>	52744-13-5

## Physical Properties

Property code	Value	Unit	Source
gf	145.62	kJ/mol	Joback Method
hf	18.79	kJ/mol	Joback Method
hfus	37.77	kJ/mol	Joback Method
hvap	77.14	kJ/mol	Joback Method
log10ws	-8.18		Crippen Method
logp	7.274		Crippen Method
mvol	205.860	ml/mol	McGowan Method
pc	2450.74	kPa	Joback Method
rinpol	2135.00		NIST Webbook
rinpol	2134.00		NIST Webbook
rinpol	2134.00		NIST Webbook
rinpol	2212.00		NIST Webbook
rinpol	2212.00		NIST Webbook
rinpol	2164.00		NIST Webbook
rinpol	2210.00		NIST Webbook
rinpol	2164.00		NIST Webbook
rinpol	2210.00		NIST Webbook
tb	781.78	K	Joback Method
tc	1052.68	K	Joback Method
tf	532.48	K	Joback Method
vc	0.785	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	401.07	J/molxK	781.78	Joback Method
cpg	409.07	J/molxK	826.93	Joback Method
cpg	416.26	J/molxK	872.08	Joback Method
cpg	422.71	J/molxK	917.23	Joback Method
cpg	428.46	J/molxK	962.38	Joback Method
cpg	433.56	J/molxK	1007.53	Joback Method
cpg	438.05	J/molxK	1052.68	Joback Method
dvisc	0.0005388	Paxs	532.48	Joback Method
dvisc	0.0003981	Paxs	574.03	Joback Method
dvisc	0.0003063	Paxs	615.58	Joback Method
dvisc	0.0002437	Paxs	657.13	Joback Method
dvisc	0.0001992	Paxs	698.68	Joback Method
dvisc	0.0001666	Paxs	740.23	Joback Method
dvisc	0.0001419	Paxs	781.78	Joback Method

## Sources

<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=C52744135&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C52744135&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.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>

## 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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