

# 1,1'-Biphenyl, 2,2',3,4,4',5,6'-Heptachloro-

<b>Other names:</b>	PCB 182
<b>Inchi:</b>	InChI=1S/C12H3Cl7/c13-4-1-6(14)9(7(15)2-4)5-3-8(16)11(18)12(19)10(5)17/h1-3H
<b>InchiKey:</b>	RXRLRYZUMSYVLS-UHFFFAOYSA-N
<b>Formula:</b>	C12H3Cl7
<b>SMILES:</b>	Clc1cc(Cl)c(-c2cc(Cl)c(Cl)c(Cl)c2Cl)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	395.32
<b>CAS:</b>	60145-23-5

## Physical Properties

Property code	Value	Unit	Source
gf	124.06	kJ/mol	Joback Method
hf	-8.42	kJ/mol	Joback Method
hfus	41.57	kJ/mol	Joback Method
hvap	82.19	kJ/mol	Joback Method
log10ws	-8.87		Crippen Method
logp	7.927		Crippen Method
mcvol	218.100	ml/mol	McGowan Method
pc	2329.27	kPa	Joback Method
rinpol	2402.00		NIST Webbook
tb	824.19	K	Joback Method
tc	1096.84	K	Joback Method
tf	574.92	K	Joback Method
vc	0.835	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	415.14	J/molxK	824.19	Joback Method
cpg	442.79	J/molxK	1051.40	Joback Method
cpg	438.58	J/molxK	1005.96	Joback Method
cpg	433.75	J/molxK	960.51	Joback Method
cpg	428.26	J/molxK	915.07	Joback Method
cpg	422.07	J/molxK	869.63	Joback Method
cpg	446.42	J/molxK	1096.84	Joback Method

dvisc	0.0001272	Paxs	824.19	Joback Method
dvisc	0.0001479	Paxs	782.64	Joback Method
dvisc	0.0001750	Paxs	741.10	Joback Method
dvisc	0.0002113	Paxs	699.56	Joback Method
dvisc	0.0002611	Paxs	658.01	Joback Method
dvisc	0.0003321	Paxs	616.47	Joback Method
dvisc	0.0004373	Paxs	574.92	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C60145235&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60145235&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>mvol:</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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