

# 1,1'-Biphenyl, 2,5-dichloro-

<b>Other names:</b>	2,5-Dichloro-1,1'-biphenyl 2,5-Dichlorobiphenyl Biphenyl, 2,5-dichloro- PCB 9
<b>Inchi:</b>	InChI=1S/C12H8Cl2/c13-10-6-7-12(14)11(8-10)9-4-2-1-3-5-9/h1-8H
<b>InchiKey:</b>	KKQWHYGECTYFIA-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl2
<b>SMILES:</b>	Clc1ccc(Cl)c(-c2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	223.10
<b>CAS:</b>	34883-39-1

## Physical Properties

Property code	Value	Unit	Source
gf	231.86	kJ/mol	Joback Method
hf	127.63	kJ/mol	Joback Method
hfus	22.53	kJ/mol	Joback Method
hvap	76.80 ± 0.40	kJ/mol	NIST Webbook
log10ws	-5.24		Aqueous Solubility Prediction Method
logp	4.660		Crippen Method
mcvol	156.900	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
rinpol	1635.00		NIST Webbook
rinpol	1635.00		NIST Webbook
rinpol	1672.00		NIST Webbook
rinpol	1656.00		NIST Webbook
rinpol	1637.00		NIST Webbook
rinpol	1637.00		NIST Webbook
rinpol	1672.00		NIST Webbook
rinpol	1628.00		NIST Webbook
rinpol	1635.00		NIST Webbook
tb	612.14	K	Joback Method
tc	871.88	K	Joback Method
tf	362.72	K	Joback Method
vc	0.590	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	391.60	J/molxK	871.88	Joback Method
cpg	383.35	J/molxK	828.59	Joback Method
cpg	374.26	J/molxK	785.30	Joback Method
cpg	364.26	J/molxK	742.01	Joback Method
cpg	353.28	J/molxK	698.72	Joback Method
cpg	341.24	J/molxK	655.43	Joback Method
cpg	328.07	J/molxK	612.14	Joback Method
dvisc	0.0013975	Paxs	362.72	Joback Method
dvisc	0.0001963	Paxs	612.14	Joback Method
dvisc	0.0002417	Paxs	570.57	Joback Method
dvisc	0.0003074	Paxs	529.00	Joback Method
dvisc	0.0004074	Paxs	487.43	Joback Method
dvisc	0.0005691	Paxs	445.86	Joback Method
dvisc	0.0008516	Paxs	404.29	Joback Method
hvapt	73.90	kJ/mol	368.00	NIST Webbook

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	444.20	K	2.00	NIST Webbook

# Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

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

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C34883391&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)

# 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>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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