1,1'-Biphenyl 2,3'-dichloro-

Other names:	2,3'-Dichloro-1,1'-biphenyl
	2,3'-Dichlorobiphenyl
	PCB 6
Inchi:	InChI=1S/C12H8Cl2/c13-10-5-3-4-9(8-10)11-6-1-2-7-12(11)14/h1-8H
InchiKey:	ZHBBDTRJIVXKEX-UHFFFAOYSA-N
Formula:	C12H8Cl2
SMILES:	Clc1cccc(-c2ccccc2Cl)c1
Mol. weight [g/mol]:	223.10
CAS:	25569-80-6

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	56.95	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.660		Crippen Method
mcvol	156.900	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
rinpol	1676.00		NIST Webbook
rinpol	1648.90		NIST Webbook
rinpol	1649.00		NIST Webbook
rinpol	1690.00		NIST Webbook
rinpol	1644.00		NIST Webbook
rinpol	1649.00		NIST Webbook
rinpol	1689.00		NIST Webbook
rinpol	1648.90		NIST Webbook
rinpol	1658.00		NIST Webbook
rinpol	1655.00		NIST Webbook
rinpol	1689.00		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	328.07	J/mol×K	612.14	Joback Method
cpg	383.35	J/mol×K	828.59	Joback Method
cpg	374.26	J/mol×K	785.30	Joback Method
cpg	364.26	J/mol×K	742.01	Joback Method
cpg	353.28	J/mol×K	698.72	Joback Method
cpg	341.24	J/mol×K	655.43	Joback Method
cpg	391.60	J/mol×K	871.88	Joback Method
dvisc	0.0001963	Pa×s	612.14	Joback Method
dvisc	0.0002417	Pa×s	570.57	Joback Method
dvisc	0.0003074	Pa×s	529.00	Joback Method
dvisc	0.0004074	Pa×s	487.43	Joback Method
dvisc	0.0005691	Pa×s	445.86	Joback Method
dvisc	0.0008516	Pa×s	404.29	Joback Method
dvisc	0.0013975	Pa×s	362.72	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C25569806&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume