1,1'-Biphenyl, 2,2'-dibromo-

Other names:	Biphenyl, 2,2'-dibromo- O,O'-Dibromobiphenyl 2,2'-Dibromobiphenyl
Inchi:	InChI=1S/C12H8Br2/c13-11-7-3-1-5-9(11)10-6-2-4-8-12(10)14/h1-8H
InchiKey:	DRKHIWKXLZCAKP-UHFFFAOYSA-N
Formula:	C12H8Br2
SMILES:	Brc1ccccc1-c1ccccc1Br
Mol. weight [g/mol]:	312.00
CAS:	13029-09-9

Physical Properties

Property code	Value	Unit	Source
gf	284.36	kJ/mol	Joback Method
hf	211.77	kJ/mol	Joback Method
hfus	24.71	kJ/mol	Joback Method
hvap	61.05	kJ/mol	Joback Method
ie	8.40 ± 0.02	eV	NIST Webbook
log10ws	-6.40		Crippen Method
logp	4.879		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	3906.25	kPa	Joback Method
tb	669.60	K	Joback Method
tc	948.64	K	Joback Method
tf	422.48	K	Joback Method
vc	0.616	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.29	J/mol×K	669.60	Joback Method
cpg	398.01	J/mol×K	902.14	Joback Method
cpg	389.70	J/mol×K	855.63	Joback Method
cpg	380.59	J/mol×K	809.12	Joback Method
cpg	370.57	J/mol×K	762.61	Joback Method

cpg	359.51	J/mol×K	716.11	Joback Method
cpg	405.64	J/mol×K	948.64	Joback Method
dvisc	0.0001927	Pa×s	669.60	Joback Method
dvisc	0.0002337	Pa×s	628.41	Joback Method
dvisc	0.0002913	Pa×s	587.23	Joback Method
dvisc	0.0003754	Pa×s	546.04	Joback Method
dvisc	0.0005042	Pa×s	504.85	Joback Method
dvisc	0.0007137	Pa×s	463.67	Joback Method
dvisc	0.0010809	Pa×s	422.48	Joback Method

Sources

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=C13029099&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume