1,1'-Biphenyl, 3,3'-dimethoxy-

Other names:	Biphenyl, 3,3'-dimethoxy- 3,3'-Dimethoxybiphenyl 3,3'-dimethoxy-1,1'-biphenyl
Inchi:	InChI=1S/C14H14O2/c1-15-13-7-3-5-11(9-13)12-6-4-8-14(10-12)16-2/h3-10H,1-2H3
InchiKey:	UCHNVSDXSPIKRG-UHFFFAOYSA-N
Formula:	C14H14O2
SMILES:	COc1cccc(-c2cccc(OC)c2)c1
Mol. weight [g/mol]:	214.26
CAS:	6161-50-8

Physical Properties

Property code	Value	Unit	Source
gf	62.56	kJ/mol	Joback Method
hf	-146.61	kJ/mol	Joback Method
hfus	21.70	kJ/mol	Joback Method
hvap	57.45	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.371		Crippen Method
mcvol	172.340	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
tb	601.20	K	NIST Webbook
tc	862.40	K	Joback Method
tf	369.88	K	Joback Method
vc	0.639	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.83	J/mol×K	627.88	Joback Method
cpg	493.34	J/mol×K	823.31	Joback Method
cpg	481.31	J/mol×K	784.23	Joback Method
cpg	468.26	J/mol×K	745.14	Joback Method
cpg	454.18	J/mol×K	706.05	Joback Method
cpg	439.04	J/mol×K	666.97	Joback Method

cpg	504.37	J/mol×K	862.40	Joback Method
dvisc	0.0001132	Pa×s	627.88	Joback Method
dvisc	0.0001403	Pa×s	584.88	Joback Method
dvisc	0.0001800	Pa×s	541.88	Joback Method
dvisc	0.0002411	Pa×s	498.88	Joback Method
dvisc	0.0003413	Pa×s	455.88	Joback Method
dvisc	0.0005193	Pa×s	412.88	Joback Method
dvisc	0.0008710	Pa×s	369.88	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=C6161508&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
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