3,3-Dimethyl 4,4-dihydroxy biphenyl

Inchi: InChI=1S/C14H14O2/c1-9-7-11(3-5-13(9)15)12-4-6-14(16)10(2)8-12/h3-8,15-16H,1-2H3
InchiKey: WUGKVYDVIGOPSI-UHFFFAOYSA-N
Formula: C14H14O2
SMILES: Cc1cc(-c2ccc(O)c(C)c2)ccc1O
Mol. weight [g/mol]: 214.26
CAS: 612-84-0

Physical Properties

Property code	Value	Unit	Source
gf	-36.68	kJ/mol	Joback Method
hf	-236.79	kJ/mol	Joback Method
hfus	30.89	kJ/mol	Joback Method
hvap	78.66	kJ/mol	Joback Method
log10ws	-4.12		Crippen Method
logp	3.382		Crippen Method
mcvol	172.340	ml/mol	McGowan Method
pc	3754.57	kPa	Joback Method
tb	744.28	K	Joback Method
tc	1001.45	K	Joback Method
tf	548.86	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.27	J/mol×K	744.28	Joback Method
cpg	531.96	J/mol×K	958.59	Joback Method
cpg	520.35	J/mol×K	915.73	Joback Method
cpg	508.68	J/mol×K	872.86	Joback Method
cpg	496.74	J/mol×K	830.00	Joback Method
cpg	484.34	J/mol×K	787.14	Joback Method
cpg	543.71	J/mol×K	1001.45	Joback Method
dvisc	0.0000011	Pa×s	744.28	Joback Method
dvisc	0.0000016	Pa×s	711.71	Joback Method

dvisc	0.0000025	Pa×s	679.14	Joback Method
dvisc	0.0000041	Pa×s	646.57	Joback Method
dvisc	0.0000071	Pa×s	614.00	Joback Method
dvisc	0.0000129	Pa×s	581.43	Joback Method
dvisc	0.0000254	Pa×s	548.86	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C612840&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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