Phenol, 4,4'-oxybis-

Other names:	Phenol, 4,4'-oxydi-
	p-(p-Hydroxyphenoxy)phenol
	p-Hydroxyphenyl ether
	Bis(p-hydroxyphenyl) ether
	Bis(4-hydroxyphenyl) ether
	4,4'-Dihydroxydiphenyl ether
	4,4'-Dihydroxydiphenyl oxide
	4,4'-Oxybisphenol
	4,4'-Oxydiphenol
	p,p'-Oxydiphenol
	Quinol ether
	p,p'-oxybisphenol
Inchi:	InChI=1S/C12H10O3/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8,13-14H
InchiKey:	NZGQHKSLKRFZFL-UHFFFAOYSA-N
Formula:	C12H10O3
SMILES:	Oc1ccc(Oc2ccc(O)cc2)cc1
Mol. weight [g/mol]:	202.21
CAS:	1965-09-9

Physical Properties

Property code	Value	Unit	Source
gf	-139.26	kJ/mol	Joback Method
hf	-304.79	kJ/mol	Joback Method
hfus	27.67	kJ/mol	Joback Method
hvap	75.30	kJ/mol	Joback Method
log10ws	-2.20		Crippen Method
logp	2.890		Crippen Method
mcvol	150.030	ml/mol	McGowan Method
pc	4910.80	kPa	Joback Method
tb	710.98	K	Joback Method
tc	974.16	K	Joback Method
tf	523.51	K	Joback Method
vc	0.442	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.80	J/mol×K	710.98	Joback Method
cpg	449.13	J/mol×K	930.30	Joback Method
cpg	439.41	J/mol×K	886.43	Joback Method
cpg	429.52	J/mol×K	842.57	Joback Method
cpg	419.25	J/mol×K	798.71	Joback Method
cpg	408.41	J/mol×K	754.84	Joback Method
cpg	458.88	J/mol×K	974.16	Joback Method
dvisc	0.0000014	Pa×s	710.98	Joback Method
dvisc	0.0000021	Pa×s	679.74	Joback Method
dvisc	0.0000033	Pa×s	648.49	Joback Method
dvisc	0.0000056	Pa×s	617.25	Joback Method
dvisc	0.0000099	Pa×s	586.00	Joback Method
dvisc	0.0000189	Pa×s	554.75	Joback Method
dvisc	0.0000386	Pa×s	523.51	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=C1965099&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