

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	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

Sources

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
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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