Phenol, o-(o-methoxyphenoxy)-

Other names:	2-(2-Methoxyphenoxy)phenol
	2-Hydroxy-2'-methoxy diphenyl ether
Inchi:	InChI=1S/C13H12O3/c1-15-12-8-4-5-9-13(12)16-11-7-3-2-6-10(11)14/h2-9,14H,1H3
InchiKey:	OHMCFTVLHBWELH-UHFFFAOYSA-N
Formula:	C13H12O3
SMILES:	COc1ccccc1Oc1ccccc1O
Mol. weight [g/mol]:	216.23
CAS:	21905-60-2

Physical Properties

Property code	Value	Unit	Source
gf	-90.85	kJ/mol	Joback Method
hf	-291.81	kJ/mol	Joback Method
hfus	25.28	kJ/mol	Joback Method
hvap	67.58	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	3.193		Crippen Method
mcvol	164.120	ml/mol	McGowan Method
pc	3443.98	kPa	Joback Method
tb	680.64	K	Joback Method
tc	927.48	K	Joback Method
tf	457.81	K	Joback Method
vc	0.549	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	424.64	J/mol×K	680.64	Joback Method
cpg	438.41	J/mol×K	721.78	Joback Method
cpg	451.17	J/mol×K	762.92	Joback Method
cpg	463.02	J/mol×K	804.06	Joback Method
cpg	474.03	J/mol×K	845.20	Joback Method
cpg	484.28	J/mol×K	886.34	Joback Method
cpg	493.86	J/mol×K	927.48	Joback Method

dvisc	0.0002772	Pa×s	457.81	Joback Method
dvisc	0.0001369	Pa×s	494.95	Joback Method
dvisc	0.0000746	Pa×s	532.09	Joback Method
dvisc	0.0000440	Pa×s	569.23	Joback Method
dvisc	0.0000277	Pa×s	606.36	Joback Method
dvisc	0.0000184	Pa×s	643.50	Joback Method
dvisc	0.0000127	Pa×s	680.64	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C21905602&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