

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
mvol	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	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

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

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C21905602&Units=SI

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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