Phenol, m-(m-phenoxyphenoxy)-

Inchi: InChI=1S/C18H14O3/c19-14-6-4-9-16(12-14)21-18-11-5-10-17(13-18)20-15-7-2-1-3-8-15
InchiKey: VTEWWGHLESEIEO-UHFFFAOYSA-N
Formula: C18H14O3
SMILES: Oc1cccc(Oc2cccc(Oc3ccccc3)c2)c1
Mol. weight [g/mol]: 278.30
CAS: 14200-84-1

Physical Properties

Property code	Value	Unit	Source
gf	63.66	kJ/mol	Joback Method
hf	-158.48	kJ/mol	Joback Method
hfus	32.27	kJ/mol	Joback Method
hvap	80.99	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	4.977		Crippen Method
mcvol	210.810	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
tb	821.72	K	Joback Method
tc	1087.08	K	Joback Method
tf	540.58	K	Joback Method
vc	0.722	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	597.29	J/mol×K	821.72	Joback Method
cpg	611.66	J/mol×K	865.95	Joback Method
cpg	624.87	J/mol×K	910.17	Joback Method
cpg	637.08	J/mol×K	954.40	Joback Method
cpg	648.43	J/mol×K	998.63	Joback Method
cpg	659.06	J/mol×K	1042.85	Joback Method
cpg	669.12	J/mol×K	1087.08	Joback Method
dvisc	0.0000892	Pa×s	540.58	Joback Method
dvisc	0.0000438	Pa×s	587.44	Joback Method

dvisc	0.0000239	Pa×s	634.29	Joback Method
dvisc	0.0000142	Pa×s	681.15	Joback Method
dvisc	0.0000090	Pa×s	728.01	Joback Method
dvisc	0.0000060	Pa×s	774.86	Joback Method
dvisc	0.0000042	Pa×s	821.72	Joback Method

Sources

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=C14200841&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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