Benzene, 1-methoxy-3-phenoxy-

Other names:	m-Methoxyphenyl phenyl ether
	m-Phenoxymethoxybenzene
	m-Phenoxyphenol monomethyl ether
	1-Methoxy-3-phenoxybenzene
	3-Methoxyphenoxybenzene
	Benzene, 1-methoxy-3-phenyloxy
	m-phenoxyanisole
Inchi:	InChI=1S/C13H12O2/c1-14-12-8-5-9-13(10-12)15-11-6-3-2-4-7-11/h2-10H,1H3
InchiKey:	CBVXNDCIOLXDFD-UHFFFAOYSA-N
Formula:	C13H12O2
SMILES:	COc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]:	200.23
CAS:	1655-68-1

Physical Properties

Property code	Value	Unit	Source
gf	63.77	kJ/mol	Joback Method
hf	-114.50	kJ/mol	Joback Method
hfus	19.50	kJ/mol	Joback Method
hvap	54.57	kJ/mol	Joback Method
log10ws	-3.23		Crippen Method
logp	3.487		Crippen Method
mcvol	158.250	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
tb	600.02	K	Joback Method
tc	838.46	K	Joback Method
tf	346.09	K	Joback Method
vc	0.584	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	374.17	J/mol×K	600.02	Joback Method
cpg	442.69	J/mol×K	798.72	Joback Method

cpg	431.05	J/mol×K	758.98	Joback Method
cpg	418.41	J/mol×K	719.24	Joback Method
cpg	404.72	J/mol×K	679.50	Joback Method
cpg	389.98	J/mol×K	639.76	Joback Method
cpg	453.34	J/mol×K	838.46	Joback Method
dvisc	0.0001253	Pa×s	600.02	Joback Method
dvisc	0.0001572	Pa×s	557.70	Joback Method
dvisc	0.0002047	Pa×s	515.38	Joback Method
dvisc	0.0002795	Pa×s	473.06	Joback Method
dvisc	0.0004057	Pa×s	430.73	Joback Method
dvisc	0.0006388	Pa×s	388.41	Joback Method
dvisc	0.0011238	Pa×s	346.09	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=C1655681&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