Benzene, 1-methoxy-4-phenoxy-

Other names:	p-Methoxydiphenyl ether
	p-Methoxyphenyl phenyl ether
	p-Phenoxyanisole
	1-Methoxy-4-phenoxybenzene
Inchi:	InChI=1S/C13H12O2/c1-14-11-7-9-13(10-8-11)15-12-5-3-2-4-6-12/h2-10H,1H3
InchiKey:	ZRJGNCLNUWKEFU-UHFFFAOYSA-N
Formula:	C13H12O2
SMILES:	COc1ccc(Oc2ccccc2)cc1
Mol. weight [g/mol]:	200.23
CAS:	1655-69-2

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
rinpol	284.70		NIST Webbook
rinpol	1630.70		NIST Webbook
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	389.98	J/mol×K	639.76	Joback Method
cpg	404.72	J/mol×K	679.50	Joback Method

cpg	418.41	J/mol×K	719.24	Joback Method
cpg	431.05	J/mol×K	758.98	Joback Method
cpg	442.69	J/mol×K	798.72	Joback Method
cpg	453.34	J/mol×K	838.46	Joback Method
dvisc	0.0011238	Pa×s	346.09	Joback Method
dvisc	0.0006388	Pa×s	388.41	Joback Method
dvisc	0.0004057	Pa×s	430.73	Joback Method
dvisc	0.0002795	Pa×s	473.06	Joback Method
dvisc	0.0002047	Pa×s	515.38	Joback Method
dvisc	0.0001572	Pa×s	557.70	Joback Method
dvisc	0.0001253	Pa×s	600.02	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1655692&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume