Benzene, 1,1'-oxybis[4-methyl-

Other names:	p-Tolyl ether
	4,4'-Dimethyldiphenyl ether
	Benzene, 1,1'-oxybis*4-methyl-
	Di-p-Tolyl ether
	Bis(4-methylphenyl) ether
	p-(p-Tolyloxy)toluene
	1-Methyl-4-(4-methylphenoxy)benzene
Inchi:	InChI=1S/C14H14O/c1-11-3-7-13(8-4-11)15-14-9-5-12(2)6-10-14/h3-10H,1-2H3
InchiKey:	YWYHGNUFMPSTTR-UHFFFAOYSA-N
Formula:	C14H14O
SMILES:	Cc1ccc(Oc2ccc(C)cc2)cc1
Mol. weight [g/mol]:	198.26
CAS:	1579-40-4

Physical Properties

Property code	Value	Unit	Source
gf	167.56	kJ/mol	Joback Method
hf	-14.39	kJ/mol	Joback Method
hfus	20.51	kJ/mol	Joback Method
hvap	55.04	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	4.096		Crippen Method
mcvol	166.470	ml/mol	McGowan Method
pc	2637.96	kPa	Joback Method
tb	605.46	K	Joback Method
tc	843.53	K	Joback Method
tf	347.65	K	Joback Method
vc	0.622	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.28	J/mol×K	605.46	Joback Method
cpg	413.91	J/mol×K	645.14	Joback Method

cpg	429.41	J/mol×K	684.82	Joback Method
cpg	443.82	J/mol×K	724.49	Joback Method
cpg	457.18	J/mol×K	764.17	Joback Method
cpg	469.52	J/mol×K	803.85	Joback Method
cpg	480.89	J/mol×K	843.53	Joback Method
dvisc	0.0011465	Pa×s	347.65	Joback Method
dvisc	0.0006664	Pa×s	390.62	Joback Method
dvisc	0.0004313	Pa×s	433.59	Joback Method
dvisc	0.0003019	Pa×s	476.56	Joback Method
dvisc	0.0002242	Pa×s	519.52	Joback Method
dvisc	0.0001742	Pa×s	562.49	Joback Method
dvisc	0.0001403	Pa×s	605.46	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1579404&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

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