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

Other names:	Ether, bis(p-chlorophenyl)
	p,p'-Dichlorodiphenyl oxide
	Bis(p-chlorophenyl) ether
	4,4'-Dichlorodiphenyl ether
	Benzene, 1,1'-oxybis*4-chloro-
Inchi:	InChI=1S/C12H8Cl2O/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8H
InchiKey:	URUJZHZLCCIILC-UHFFFAOYSA-N
Formula:	C12H8Cl2O
SMILES:	Clc1ccc(Oc2ccc(Cl)cc2)cc1
Mol. weight [g/mol]:	239.10
CAS:	2444-89-5

Physical Properties

Property code	Value	Unit	Source
gf	126.86	kJ/mol	Joback Method
hf	-4.59	kJ/mol	Joback Method
hfus	23.72	kJ/mol	Joback Method
hvap	59.36	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	4.786		Crippen Method
mcvol	162.770	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
tb	634.56	K	Joback Method
tc	889.75	K	Joback Method
tf	384.95	K	Joback Method
vc	0.608	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.12	J/mol×K	634.56	Joback Method
cpg	363.98	J/mol×K	677.09	Joback Method
cpg	375.79	J/mol×K	719.62	Joback Method
cpg	386.58	J/mol×K	762.16	Joback Method

cpg	396.40	J/mol×K	804.69	Joback Method
cpg	405.30	J/mol×K	847.22	Joback Method
cpg	413.32	J/mol×K	889.75	Joback Method
dvisc	0.0010585	Pa×s	384.95	Joback Method
dvisc	0.0006592	Pa×s	426.55	Joback Method
dvisc	0.0004466	Pa×s	468.15	Joback Method
dvisc	0.0003224	Pa×s	509.75	Joback Method
dvisc	0.0002444	Pa×s	551.36	Joback Method
dvisc	0.0001927	Pa×s	592.96	Joback Method
dvisc	0.0001567	Pa×s	634.56	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2444895&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