

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

<b>Other names:</b>	Ether, bis(p-chlorophenyl) p,p'-Dichlorodiphenyl oxide Bis(p-chlorophenyl) ether 4,4'-Dichlorodiphenyl ether Benzene, 1,1'-oxybis*4-chloro-
<b>Inchi:</b>	InChI=1S/C12H8Cl2O/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8H
<b>InchiKey:</b>	URUJZHLCIILC-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl2O
<b>SMILES:</b>	Clc1ccc(Oc2ccc(Cl)cc2)cc1
<b>Mol. weight [g/mol]:</b>	239.10
<b>CAS:</b>	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/molxK	634.56	Joback Method
cpg	363.98	J/molxK	677.09	Joback Method
cpg	375.79	J/molxK	719.62	Joback Method
cpg	386.58	J/molxK	762.16	Joback Method

cpg	396.40	J/molxK	804.69	Joback Method
cpg	405.30	J/molxK	847.22	Joback Method
cpg	413.32	J/molxK	889.75	Joback Method
dvisc	0.0010585	Paxs	384.95	Joback Method
dvisc	0.0006592	Paxs	426.55	Joback Method
dvisc	0.0004466	Paxs	468.15	Joback Method
dvisc	0.0003224	Paxs	509.75	Joback Method
dvisc	0.0002444	Paxs	551.36	Joback Method
dvisc	0.0001927	Paxs	592.96	Joback Method
dvisc	0.0001567	Paxs	634.56	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2444895&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2444895&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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