

2,2-Bis(p-methoxyphenyl)-1,1-dichloroethylene

Other names:	Methoxychlor olefin Benzene, 1,1'-(dichloroethenylidene)bis[4-methoxy- Ethylene, 1,1-dichloro-2,2-bis(p-methoxyphenyl)- p,p'-Methoxychlor olefin DMDE 1,1-Bis(p-methoxyphenyl)-2,2-dichloroethylene 1,1-Dichloro-2,2-bis(p-methoxyphenyl)ethylene 1,1-Dichloro-2,2-bis(4-methoxyphenyl) ethene 2,2-Dichloro-1,1-bis(4-methoxyphenyl)ethylene p,p-Methoxychlor olefin 1,1-Dichloro-2,2-bis(4-methoxyphenyl)ethylene NSC 97452 Methoxychlor olefin (DDE-analog) Methoxychlor, dehydrochloro
Inchi:	InChI=1S/C16H14Cl2O2/c1-19-13-7-3-11(4-8-13)15(16(17)18)12-5-9-14(20-2)10-6-12/h3
InchiKey:	YCRYSVKEAWWTGI-UHFFFAOYSA-N
Formula:	C16H14Cl2O2
SMILES:	COc1ccc(C(=C(Cl)Cl)c2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	309.19
CAS:	2132-70-9

Physical Properties

Property code	Value	Unit	Source
gf	118.66	kJ/mol	Joback Method
hf	-121.73	kJ/mol	Joback Method
hfus	32.85	kJ/mol	Joback Method
hvap	70.79	kJ/mol	Joback Method
log10ws	-5.55		Crippen Method
logp	4.898		Crippen Method
mcvol	220.700	ml/mol	McGowan Method
pc	2127.56	kPa	Joback Method
tb	752.42	K	Joback Method
tc	999.84	K	Joback Method
tf	419.26	K	Joback Method
vc	0.832	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	554.05	J/molxK	752.42	Joback Method
cpg	568.49	J/molxK	793.66	Joback Method
cpg	581.74	J/molxK	834.89	Joback Method
cpg	593.86	J/molxK	876.13	Joback Method
cpg	604.91	J/molxK	917.36	Joback Method
cpg	614.95	J/molxK	958.60	Joback Method
cpg	624.04	J/molxK	999.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2132709&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
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

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