

o,p'-Methoxychlor

Other names:

Benzene, 1-methoxy-2-[2,2,2-trichloro-1-(4-methoxyphenyl)ethyl]-
Ethane, 1,1,1-trichloro-2-(o-methoxyphenyl)-2-(p-methoxyphenyl)-
o,p-Methoxychlor

1-Methoxy-2-(2,2,2-trichloro-1-(4-methoxyphenyl)ethyl)benzene

Inchi:

InChI=1S/C16H15Cl3O2/c1-20-12-9-7-11(8-10-12)15(16(17,18)19)13-5-3-4-6-14(13)21-2

InchiKey:

KNLLPAOBVIKLDE-UHFFFAOYSA-N

Formula:

C16H15Cl3O2

SMILES:

COc1ccc(C(c2ccccc2OC)C(Cl)(Cl)Cl)cc1

Mol. weight [g/mol]:

345.65

CAS:

30667-99-3

Physical Properties

Property code	Value	Unit	Source
gf	44.01	kJ/mol	Joback Method
hf	-249.14	kJ/mol	Joback Method
hfus	28.53	kJ/mol	Joback Method
hvap	73.38	kJ/mol	Joback Method
log10ws	-5.76		Crippen Method
logp	5.206		Crippen Method
mcvol	237.240	ml/mol	McGowan Method
pc	1992.98	kPa	Joback Method
tb	782.26	K	Joback Method
tc	1032.53	K	Joback Method
tf	349.72 ± 0.20	K	NIST Webbook
vc	0.881	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.75	J/molxK	1032.53	Joback Method
cpg	606.37	J/molxK	782.26	Joback Method
cpg	620.25	J/molxK	823.97	Joback Method
cpg	632.84	J/molxK	865.68	Joback Method
cpg	644.21	J/molxK	907.40	Joback Method

cpg	654.43	J/mol×K	949.11	Joback Method
cpg	663.59	J/mol×K	990.82	Joback Method
dvisc	0.0000512	Paxs	782.26	Joback Method
dvisc	0.0005631	Paxs	469.60	Joback Method
dvisc	0.0003092	Paxs	521.71	Joback Method
dvisc	0.0001893	Paxs	573.82	Joback Method
dvisc	0.0001258	Paxs	625.93	Joback Method
dvisc	0.0000890	Paxs	678.04	Joback Method
dvisc	0.0000662	Paxs	730.15	Joback Method
hfust	22.45	kJ/mol	347.60	NIST Webbook

Sources

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=C30667993&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hfust:	Enthalpy of fusion at a given temperature
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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