Chlorfenethol

Other names:	DMC
	Benzenemethanol, 4-chloro-«alpha»-(4-chlorophenyl)-«alpha»-methyl-
	Benzhydrol, 4,4'-dichloro-«alpha»-methyl-
	Bis(p-chlorophenyl)methylcarbinol
	Bis(4-chlorophenyl)methylcarbinol
	BPE
	Dimit
	Dimite
	DCPC
	ENT 9,624
	Micasin
	Mikazene
	Quickron
	1,1-Bis(p-Chlorophenyl)ethanol
	1,1-Bis(4-chlorophenyl)ethanol
	4,4'-Dichloro-«alpha»-methylbenzhydrol
	p,p'-Dichlorodiphenylmethylcarbinol
	BCPE
	Di(p-chlorophenyl)ethanol
	Di(p-chlorophenyl)methyl carbinol
	Dichlorodiphenylethanol
	DCPE
	Ethanol, 1,1-bis(p-chlorophenyl)-
	Qikron
	1,1-Bis(p-chlorophenyl)methylcarbinol
	1,1-Bis(p-chorophenyl)ethanol
	4,4'-Dichloro-«alpha»-methylbenzohydrol
	1,1-Bis(4-chlorphenyl)-aethanol
	BCPE (pesticide)
	NSC 2848
Inchi:	InChI=1S/C14H12Cl2O/c1-14(17,10-2-6-12(15)7-3-10)11-4-8-13(16)9-5-11/h2-9,17H,1H
InchiKey:	URYAFVKLYSEINW-UHFFFAOYSA-N
Formula:	C14H12Cl2O
SMILES:	CC(O)(c1ccc(Cl)cc1)c1ccc(Cl)cc1
Mol. weight [g/mol]:	267.15
CAS:	80-06-8

Physical Properties

Property code	Value	Unit	Source
gf	114.72	kJ/mol	Joback Method
hf	-74.63	kJ/mol	Joback Method
hfus	24.39	kJ/mol	Joback Method
hvap	76.79	kJ/mol	Joback Method
log10ws	-4.79		Crippen Method
logp	4.249		Crippen Method
mcvol	190.950	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
rinpol	1853.00		NIST Webbook
tb	746.85	K	Joback Method
tc	986.11	K	Joback Method
tf	448.50	K	Joback Method
vc	0.710	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.17	J/mol×K	746.85	Joback Method
cpg	487.67	J/mol×K	786.73	Joback Method
cpg	498.20	J/mol×K	826.60	Joback Method
cpg	507.86	J/mol×K	866.48	Joback Method
cpg	516.75	J/mol×K	906.36	Joback Method
cpg	524.97	J/mol×K	946.24	Joback Method
cpg	532.61	J/mol×K	986.11	Joback Method
dvisc	0.0009183	Pa×s	448.50	Joback Method
dvisc	0.0003859	Pa×s	498.23	Joback Method
dvisc	0.0001898	Pa×s	547.95	Joback Method
dvisc	0.0001051	Pa×s	597.67	Joback Method
dvisc	0.0000637	Pa×s	647.40	Joback Method
dvisc	0.0000415	Pa×s	697.12	Joback Method
dvisc	0.0000286	Pa×s	746.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C80068&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume