

# Dichlorophen

**Other names:** 2,2'-Dihydroxy-5,5'-dichlorodiphenylmethane  
2,2'-Methylenebis[4-chlorophenol]  
4,4'-Dichloro-2,2'-methylenediphenol  
4-chloro-2-[(5-chloro-2-hydroxyphenyl)methyl]phenol  
5,5'-Dichloro-2,2'-dihydroxydiphenylmethane  
Acticide DDM  
Algafen  
Algofen  
Anthipen  
Anthiphen  
Antifen  
Antiphen  
Bis(2-hydroxy-5-chlorophenyl)methane  
Bis(5-chloro-2-hydroxyphenyl)-methan  
Bis(5-chloro-2-hydroxyphenyl)methane  
Bis(chlorohydroxyphenyl)methane  
Bis-2-hydroxy-5-chlorfenylmethan  
Cordocel  
DDDM  
DDM  
Di-(5-chloro-2-hydroxyphenyl)methane  
Dicestal  
Dichloorfeen  
Dichlorofen  
Dichlorofen (Czech)  
Dichlorophen B  
Dichlorophene  
Dichlorophene 10  
Dichlorphen  
Didroxan  
Didroxane  
Difentan  
Diphentane 70  
Diphenthane 70  
Embephen  
Fungicide FX  
Fungicide GM  
Fungicide M  
G 4  
G-4 Pure

G-4 Technical  
GH  
Gefir  
Gingivit  
Giv Gard G 4-40  
Halenol  
Hyosan  
Korium  
Methanedichlorofen  
Nuophene  
O,O-Methyleen-bis-(4-chloorfenol)  
O,O-Metilen-bis(4-cloro-fenolo)  
Palacel  
Panacide  
Parabis  
Phenol, 2,2'-methylenebis[4-chloro-  
Plath-Lyse  
Prevental  
Preventol  
Preventol GD  
Preventol GDC  
Sandocide  
Super mosstox  
Taeniatol  
Teniathane  
Teniatol  
Teniotol  
Trivex  
Vermithana  
Wespuril  
Westpuril

**Inchi:** InChI=1S/C13H10Cl2O2/c14-10-1-3-12(16)8(6-10)5-9-7-11(15)2-4-13(9)17/h1-4,6-7,16-17  
**InchiKey:** MDNWOSOZYLHTCG-UHFFFAOYSA-N  
**Formula:** C13H10Cl2O2  
**SMILES:** Oc1ccc(Cl)cc1Cc1cc(Cl)ccc1O  
**Mol. weight [g/mol]:** 269.12  
**CAS:** 97-23-4

## Physical Properties

Property code	Value	Unit	Source
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gf	-68.96		kJ/mol	Joback Method
hf	-247.63		kJ/mol	Joback Method
hfus	36.69		kJ/mol	Joback Method
hvap	85.21		kJ/mol	Joback Method
log10ws	-3.95			Aqueous Solubility Prediction Method
log10ws	-3.95			Estimated Solubility Method
logp	3.995			Crippen Method
mvol	182.730		ml/mol	McGowan Method
pc	3857.88		kPa	Joback Method
rinpol	2140.00			NIST Webbook
rinpol	2140.00			NIST Webbook
tb	796.26		K	Joback Method
tc	1062.51		K	Joback Method
tf	446.98		K	Aqueous Solubility Prediction Method
vc	0.578		m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.57	J/molxK	796.26	Joback Method
cpg	471.20	J/molxK	840.64	Joback Method
cpg	481.50	J/molxK	885.01	Joback Method
cpg	491.70	J/molxK	929.39	Joback Method
cpg	502.01	J/molxK	973.76	Joback Method
cpg	512.67	J/molxK	1018.14	Joback Method
cpg	523.91	J/molxK	1062.51	Joback Method
dvisc	0.0000123	Paxs	597.43	Joback Method
dvisc	0.0000067	Paxs	630.57	Joback Method
dvisc	0.0000039	Paxs	663.71	Joback Method
dvisc	0.0000024	Paxs	696.85	Joback Method
dvisc	0.0000015	Paxs	729.98	Joback Method
dvisc	0.0000010	Paxs	763.12	Joback Method
dvisc	0.0000007	Paxs	796.26	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=C97234&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C97234&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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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>h vap:</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>rinpolar:</b>	Non-polar retention indices
<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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