

# Dichlorophen, cyclic ester with dimethylmalonic acid

<b>Inchi:</b>	InChI=1S/C18H14Cl2O4/c1-18(2)16(21)23-14-5-3-12(19)8-10(14)7-11-9-13(20)4-6-15(1)
<b>InchiKey:</b>	FTNIRTALKHVZSM-UHFFFAOYSA-N
<b>Formula:</b>	C18H14Cl2O4
<b>SMILES:</b>	CC1(C)C(=O)Oc2ccc(Cl)cc2Cc2cc(Cl)ccc2OC1=O
<b>Mol. weight [g/mol]:</b>	365.21

## Physical Properties

Property code	Value	Unit	Source
gf	-135.34	kJ/mol	Joback Method
hf	-488.99	kJ/mol	Joback Method
hfus	37.81	kJ/mol	Joback Method
hvap	88.42	kJ/mol	Joback Method
log10ws	-5.64		Crippen Method
logp	4.435		Crippen Method
mvol	245.460	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
rinpol	2617.00		NIST Webbook
tb	968.71	K	Joback Method
tc	1252.10	K	Joback Method
tf	676.24	K	Joback Method
vc	0.912	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	734.29	J/mol×K	968.71	Joback Method
cpg	750.32	J/mol×K	1015.94	Joback Method
cpg	765.60	J/mol×K	1063.17	Joback Method
cpg	780.28	J/mol×K	1110.41	Joback Method
cpg	794.52	J/mol×K	1157.64	Joback Method
cpg	808.46	J/mol×K	1204.87	Joback Method
cpg	822.25	J/mol×K	1252.10	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>
<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=U363643&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363643&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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