

# Dichlorophen, O,O'-di(4-methylbenzoyl)-

<b>Inchi:</b>	InChI=1S/C29H22Cl2O4/c1-18-3-7-20(8-4-18)28(32)34-26-13-11-24(30)16-22(26)15-23-
<b>InchiKey:</b>	PHHBCNJGNQBPRS-UHFFFAOYSA-N
<b>Formula:</b>	C29H22Cl2O4
<b>SMILES:</b>	<chem>Cc1ccc(C(=O)Oc2ccc(Cl)cc2Cc2cc(Cl)ccc2OC(=O)c2ccc(C)cc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	505.39

## Physical Properties

Property code	Value	Unit	Source
gf	93.46	kJ/mol	Joback Method
hf	-285.67	kJ/mol	Joback Method
hfus	58.66	kJ/mol	Joback Method
hvap	120.31	kJ/mol	Joback Method
log10ws	-10.07		Crippen Method
logp	7.639		Crippen Method
mvol	363.790	ml/mol	McGowan Method
pc	1322.31	kPa	Joback Method
rinpol	3312.00		NIST Webbook
rinpol	3312.00		NIST Webbook
tb	1226.96	K	Joback Method
tc	1506.22	K	Joback Method
tf	801.55	K	Joback Method
vc	1.373	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1105.04	J/molxK	1226.96	Joback Method
cpg	1109.78	J/molxK	1273.50	Joback Method
cpg	1112.86	J/molxK	1320.05	Joback Method
cpg	1114.40	J/molxK	1366.59	Joback Method
cpg	1114.49	J/molxK	1413.13	Joback Method
cpg	1113.24	J/molxK	1459.67	Joback Method
cpg	1110.77	J/molxK	1506.22	Joback Method
dvisc	0.0000750	Paxs	801.55	Joback Method

dvisc	0.0000503	Paxs	872.45	Joback Method
dvisc	0.0000358	Paxs	943.35	Joback Method
dvisc	0.0000267	Paxs	1014.26	Joback Method
dvisc	0.0000207	Paxs	1085.16	Joback Method
dvisc	0.0000166	Paxs	1156.06	Joback Method
dvisc	0.0000136	Paxs	1226.96	Joback Method

## Sources

<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=U354160&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354160&amp;Units=SI</a>
<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>

## Legend

<b>cp<sub>g</sub>:</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<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</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

Latest version available from:

<https://www.chemeo.com/cid/17-173-1/Dichlorophen-O-O-di-4-methylbenzoyl.pdf>

Generated by Cheméo on 2024-04-25 19:04:45.602246042 +0000 UTC m=+16361134.522823358.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.