

# Dichlorphen, O,O'-di(pentafluorobenzoyl)-

<b>Inchi:</b>	InChI=1S/C27H8Cl2F10O4/c28-10-1-3-12(42-26(40)14-16(30)20(34)24(38)21(35)17(14)
<b>InchiKey:</b>	CDEGXIKTBLFWRO-UHFFFAOYSA-N
<b>Formula:</b>	C27H8Cl2F10O4
<b>SMILES:</b>	O=C(Oc1ccc(Cl)cc1Cc1cc(Cl)ccc1OC(=O)c1c(F)c(F)c(F)c(F)c1F)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	657.24

## Physical Properties

Property code	Value	Unit	Source
gf	-1948.52	kJ/mol	Joback Method
hf	-2297.25	kJ/mol	Joback Method
hfus	81.17	kJ/mol	Joback Method
hvap	112.98	kJ/mol	Joback Method
log10ws	-12.43		Crippen Method
logp	8.414		Crippen Method
mcvol	353.310	ml/mol	McGowan Method
pc	1022.04	kPa	Joback Method
rinpol	3003.00		NIST Webbook
rinpol	3003.00		NIST Webbook
tb	1213.74	K	Joback Method
tc	1499.09	K	Joback Method
tf	885.07	K	Joback Method
vc	1.442	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1025.49	J/molxK	1213.74	Joback Method
cpg	1024.89	J/molxK	1261.30	Joback Method
cpg	1021.84	J/molxK	1308.86	Joback Method
cpg	1016.36	J/molxK	1356.42	Joback Method
cpg	1008.46	J/molxK	1403.98	Joback Method
cpg	998.13	J/molxK	1451.53	Joback Method
cpg	985.39	J/molxK	1499.09	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=U360634&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360634&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>hvap:</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>rinpola:</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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