

# Dichlorphen, O,O'-bis(2,4-difluorobenzoyl)-

<b>Inchi:</b>	InChI=1S/C27H14Cl2F4O4/c28-16-1-7-24(36-26(34)20-5-3-18(30)12-22(20)32)14(10-16
<b>InchiKey:</b>	GPBZIHDMTFKGCX-UHFFFAOYSA-N
<b>Formula:</b>	C27H14Cl2F4O4
<b>SMILES:</b>	O=C(Oc1ccc(Cl)cc1Cc1cc(Cl)ccc1OC(=O)c1ccc(F)cc1F)c1ccc(F)cc1F
<b>Mol. weight [g/mol]:</b>	549.30

## Physical Properties

Property code	Value	Unit	Source
gf	-721.88	kJ/mol	Joback Method
hf	-1051.77	kJ/mol	Joback Method
hfus	65.03	kJ/mol	Joback Method
hvap	113.91	kJ/mol	Joback Method
log10ws	-10.44		Crippen Method
logp	7.579		Crippen Method
mvol	342.690	ml/mol	McGowan Method
pc	1305.17	kPa	Joback Method
rinpol	3396.00		NIST Webbook
tb	1188.24	K	Joback Method
tc	1455.36	K	Joback Method
tf	806.41	K	Joback Method
vc	1.333	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1007.82	J/molxK	1188.24	Joback Method
cpg	1011.21	J/molxK	1232.76	Joback Method
cpg	1012.96	J/molxK	1277.28	Joback Method
cpg	1013.12	J/molxK	1321.80	Joback Method
cpg	1011.77	J/molxK	1366.32	Joback Method
cpg	1008.97	J/molxK	1410.84	Joback Method
cpg	1004.79	J/molxK	1455.36	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=U360566&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360566&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>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>hvac:</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>mccol:</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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