

# Diphenyl chlorophosphate

<b>Other names:</b>	Diphenylphosphoryl chloride Diphenylphosphorus oxychloride Diphenyl phosphorochloridate Phosphorochloridic acid, diphenyl ester Chlorodiphenoxyphosphine oxide Diphenoxychlorophosphine oxide Diphenyl phosphochloridate Diphenylphosphoric acid monochloride DPPC O,O-Diphenyl chlorophosphate Phenyl phosphorochloridate ((PhO) <sub>2</sub> ClPO) Phosphoric acid chloride diphenyl ester O,O-Diphenylphosphorochloridate NSC 43771
<b>Inchi:</b>	InChI=1S/C12H10ClO3P/c13-17(14,15-11-7-3-1-4-8-11)16-12-9-5-2-6-10-12/h1-10H
<b>InchiKey:</b>	BHIIGRBMZRSDRI-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>12</sub> H <sub>10</sub> ClO <sub>3</sub> P
<b>SMILES:</b>	O=P(Cl)(Oc1ccccc1)Oc1ccccc1
<b>Mol. weight [g/mol]:</b>	268.63
<b>CAS:</b>	2524-64-3

## Physical Properties

Property code	Value	Unit	Source
log10ws	-5.94		Crippen Method
logp	4.491		Crippen Method
mcvol	182.730	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2524643&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2524643&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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