

# Cyclohexyl methylphosphonofluoridate

<b>Other names:</b>	Cyclohexyl methylphosphonofluoridate (GF) GF Phosphonofluoridic acid, methyl-, cyclohexyl ester Methylphosphonic acid, fluoroanhydride, cyclohexyl ester
<b>Inchi:</b>	InChI=1S/C7H14FO2P/c1-11(8,9)10-7-5-3-2-4-6-7/h7H,2-6H2,1H3
<b>InchiKey:</b>	SNTRKUOVAPUGAY-UHFFFAOYSA-N
<b>Formula:</b>	C7H14FO2P
<b>SMILES:</b>	CP(=O)(F)OC1CCCCC1
<b>Mol. weight [g/mol]:</b>	180.16
<b>CAS:</b>	329-99-7

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.97		Crippen Method
logp	3.128		Crippen Method
mcvol	132.600	ml/mol	McGowan Method
rinpol	1208.00		NIST Webbook
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## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C329997&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C329997&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>

## 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

**rinpol:** Non-polar retention indices

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