

# n-Propyl methylphosphonofluoridate

<b>Other names:</b>	Phoshonofluoridic acid, methyl-, propyl ester Methylphoshonic acid, fluoroanhydride-, propyl ester Propyl methylphosphonofluoridate
<b>Inchi:</b>	InChI=1S/C4H10FO2P/c1-3-4-7-8(2,5)6/h3-4H2,1-2H3
<b>InchiKey:</b>	FTULZFLNJJKTBS-UHFFFAOYSA-N
<b>Formula:</b>	C4H10FO2P
<b>SMILES:</b>	CCCOP(C)(=O)F
<b>Mol. weight [g/mol]:</b>	140.09
<b>CAS:</b>	763-14-4

## Physical Properties

Property code	Value	Unit	Source
log10ws	-2.71		Crippen Method
logp	2.205		Crippen Method
mcvol	101.190	ml/mol	McGowan Method
rinpol	869.00		NIST Webbook
rinpol	868.90		NIST Webbook
rinpol	869.00		NIST Webbook
rinpol	868.90		NIST Webbook

## 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=C763144&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C763144&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

**rinpol:** Non-polar retention indices

Latest version available from:

<https://www.cheméo.com/cid/66-616-5/n-Propyl-methylphosphonofluoridate.pdf>

Generated by Cheméo on 2024-04-29 09:28:27.16200278 +0000 UTC m=+16672156.082580093.

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