

# Methylphosphonic acid, di(2-methylpropyl) ester

<b>Other names:</b>	O,O-Diisobutyl methylthiophosphonate Methylphosphonic acid, diisobutyl ester
<b>Inchi:</b>	InChI=1S/C9H21O3P/c1-8(2)6-11-13(5,10)12-7-9(3)4/h8-9H,6-7H2,1-5H3
<b>InchiKey:</b>	IGNFYWATZHBYPJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H21O3P
<b>SMILES:</b>	CC(C)COP(C)(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	208.24
<b>CAS:</b>	7242-56-0

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.55		Crippen Method
logp	3.155		Crippen Method
mcvol	175.740	ml/mol	McGowan Method
rinpol	1298.00		NIST Webbook
rinpol	1283.00		NIST Webbook

## Sources

<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=C7242560&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7242560&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>
<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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>rinpol:</b>	Non-polar retention indices

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