

# O-Pinacoyl-O-Trimethylsilyl methylphosphonate

<b>Other names:</b>	Methylphosphonic acid, pinacolyl ester, TMS Pinacolyl methylphosphonate, TMS Pinacolyl trimethylsilyl methylphosphonate Methylphosphonic acid, pinacolyl trimethylsilyl ester Pinacolyl methylphosphonate, tms derivative
<b>Inchi:</b>	InChI=1S/C10H25O3PSi/c1-9(10(2,3)4)12-14(5,11)13-15(6,7)8/h9H,1-8H3
<b>InchiKey:</b>	MJEDXKPLTDGGAW-UHFFFAOYSA-N
<b>Formula:</b>	C10H25O3PSi
<b>SMILES:</b>	CC(OP(C)(=O)O[Si](C)(C)C)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	252.36
<b>CAS:</b>	199116-10-4

## Physical Properties

Property code	Value	Unit	Source
log10ws	-2.38		Crippen Method
logp	4.112		Crippen Method
rinpol	1320.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1320.00		NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C199116104&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C199116104&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

**rinpol:** Non-polar retention indices

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