

# Phosphonic acid, (2,4-dinitrophenyl)-, diethyl ester

<b>Inchi:</b>	InChI=1S/C10H13N2O7P/c1-3-18-20(17,19-4-2)10-6-5-8(11(13)14)7-9(10)12(15)16/h5-7
<b>InchiKey:</b>	LPSHIFRMUWUDDI-UHFFFAOYSA-N
<b>Formula:</b>	C10H13N2O7P
<b>SMILES:</b>	CCOP(=O)(OCC)c1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	304.19
<b>CAS:</b>	23081-75-6

## Physical Properties

Property code	Value	Unit	Source
log10ws	-9.25		Crippen Method
logp	2.394		Crippen Method
mcvol	200.910	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C23081756&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23081756&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>
<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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