

Diethyl decylphosphonate

Other names:	Diethyl n-decanephosphonate
Inchi:	InChI=1S/C14H31O3P/c1-4-7-8-9-10-11-12-13-14-18(15,16-5-2)17-6-3/h4-14H2,1-3H3
InchiKey:	HYQXIVAZQBYBAF-UHFFFAOYSA-N
Formula:	C14H31O3P
SMILES:	CCCCCCCCCP(=O)(OCC)OCC
Mol. weight [g/mol]:	278.37
CAS:	16165-68-7

Physical Properties

Property code	Value	Unit	Source
log10ws	-6.13		Crippen Method
logp	5.393		Crippen Method
mcvol	246.190	ml/mol	McGowan Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C16165687&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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