

Phosphinothioic acid, diphenyl-

Other names:	Diphenylphosphinothioic acid Diphenylthiophosphinic acid
Inchi:	InChI=1S/C12H11OPS/c13-14(15,11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H,(H,13,15)
InchiKey:	UHFIMVQOGRRZRM-UHFFFAOYSA-N
Formula:	C12H11OPS
SMILES:	OP(=S)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	234.25
CAS:	14278-72-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-7.36		Crippen Method
logp	2.024		Crippen Method
mcvol	175.100	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C14278729&Units=SI

Legend

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

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