

Phosphinodithioic acid, diphenyl-

Other names:	Diphenyldithiophosphinic acid Diphenylphosphinodithioic acid Dithiodiphenylphosphinic acid Diphenyldithiophosphonic acid
Inchi:	InChI=1S/C12H11PS2/c14-13(15,11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H,(H,14,15)
InchiKey:	CLUOCCWZZAGLPM-UHFFFAOYSA-N
Formula:	C12H11PS2
SMILES:	S=P(S)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	250.32
CAS:	1015-38-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-8.17		Crippen Method
logp	2.962		Crippen Method
mcvol	185.580	ml/mol	McGowan Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1015389&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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

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