

Diphenylphosphoryl azide

Other names:	Diphenyl phosphonyl azide Diphenylphosphonic azide Diphenyl azidophosphate Phosphorazidic acid, diphenyl ester
Inchi:	InChI=1S/C12H10N3O3P/c13-14-15-19(16,17-11-7-3-1-4-8-11)18-12-9-5-2-6-10-12/h1-10
InchiKey:	SORGEQQSQGNZFI-UHFFFAOYSA-N
Formula:	C12H10N3O3P
SMILES:	[N-]=[N+]=NP(=O)(Oc1ccccc1)Oc1ccccc1
Mol. weight [g/mol]:	275.20
CAS:	26386-88-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-10.88		Crippen Method
logp	4.563		Crippen Method
mcvol	191.830	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=C26386889&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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