

(CH₃)₂CHP(C₆H₅)₂=O

Other names:	Isopropyldiphenylphosphine oxide Phosphine oxide, (1-methylethyl)diphenyl- Phosphine oxide, isopropyldiphenyl- i-C ₃ H ₇ (C ₆ H ₅) ₂ PO
Inchi:	InChI=1S/C15H17OP/c1-13(2)17(16,14-9-5-3-6-10-14)15-11-7-4-8-12-15/h3-13H,1-2H3
InchiKey:	CLPTUIWEBUOUCQ-UHFFFAOYSA-N
Formula:	C ₁₅ H ₁₇ OP
SMILES:	CC(C)P(=O)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	244.27
CAS:	2959-75-3

Physical Properties

Property code	Value	Unit	Source
affp	908.90	kJ/mol	NIST Webbook
basg	876.40	kJ/mol	NIST Webbook
log10ws	-13.49		Crippen Method
logp	3.409		Crippen Method
mvol	201.020	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=C2959753&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

affp:	Proton affinity
basg:	Gas basicity
log10ws:	Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

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