Benzenamine, N-(triphenylphosphoranylidene)-

Other names: Phosphine imide, tetraphenyl-
(Phenylimino)triphenylphosphorane
Tetraphenylphosphinimine
Triphenylphosphine phenylimide
N-(Triphenylphosphoranylidene)aniline
Tetraphenylphosphine imide
N-Phenyltriphenylphosphine imine
N-Phenyltriphenylphosphinimine

Inchi: InChI=1S/C24H20NP/c1-5-13-21(14-6-1)25-26(22-15-7-2-8-16-22,23-17-9-3-10-18-23)24

InchiKey: PTLOPIHJOPWUNN-UHFFFAOYSA-N

Formula: C24H20NP

SMILES: c1ccc(N=P(c2ccccc2)(c2ccccc2)c2ccccc2)cc1

Mol. weight [g/mol]: 353.40

CAS: 2325-27-1

Physical Properties

Property code	Value	Unit	Source
ie	6.95	eV	NIST Webbook
log10ws	-15.58		Crippen Method
logp	5.496		Crippen Method
mcvol	284.420	ml/mol	McGowan Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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=C2325271&Units=SI

Legend

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