Phosphorous triamide, hexaethyl-

Other names:	Hexaethylphosphorous triamide
	P(N(C2H5)2)3
	Tris(N,N-diethylamino)phosphine
	Tris(diethylamino)phosphine
	Hexaethylphosphoruo triamide
	Hexaethylphosphorus triamide
Inchi:	InChI=1S/C12H30N3P/c1-7-13(8-2)16(14(9-3)10-4)15(11-5)12-6/h7-12H2,1-6H3
InchiKey:	FDIOSTIIZGWENY-UHFFFAOYSA-N
Formula:	C12H30N3P
SMILES:	CCN(CC)P(N(CC)CC)N(CC)CC
Mol. weight [g/mol]:	247.36
CAS:	2283-11-6

Physical Properties

Property code	Value	Unit	Source
ie	7.19	eV	NIST Webbook
log10ws	0.62		Crippen Method
logp	3.239		Crippen Method
mcvol	230.340	ml/mol	McGowan Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	406.00 ± 1.00	K	2.70	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2283116&Units=SI
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

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbrp:	Boiling point at reduced pressure

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