Diphosphoramide, octamethyl-

Other names:

Pyrophosphoramide, octamethyl-
Bis(dimethylamino)phosphonous anhydride
Octamethylpyrophosphoramide
Octamethylpyrophosphoric acid amide
Octamethylpyrophosphoric acid tetramide
OMPA
Pestox
Pestox III
Pestox 3
Schradan
Sytam
Tetrakisdimethylaminophosphonous anhydride
Bis(dimethylamino)phosphoric anhydride
Bis-N,N,N',N'-tetramethylphosphorodiamidic anhydride
Lethalaire g-59
Octamethyl
Octamethyl pyrophosphortetramide
Octamethyl tetramido pyrophosphate
Octamethyl-difosforzuur-tetramide
Octamethyl-diphosphorsaeure-tetramid
Ompacide
Ompatox
Ompax
Ottometil-pirofosforammide
Pyrophosphoric acid, octamethyltetraamide
Pyrophosphoryltetrakisdimethylamide
Schradane
Systam
Systophos
Bis(bisdimethylaminophosphonous)anhydride
ENT 17,291
Octamethyldiphosphoramide
Octamidophos
Oktamethyl
Oktamidofos
Pestox 66
Rcra waste number P085
Diphosphoramide, N,N,N',N',N'',N'',N''',N'''-octamethyl-
NSC 8929
Pyrophosphoric acid tetrakis(dimethylamide)

Inchi:	InChI=1S/C8H24N4O3P2/c1-9(2)16(13,10(3)4)15-17(14,11(5)6)12(7)8/h1-8H3
InchiKey:	SZKKRCSOSQAJDE-UHFFFAOYSA-N
Formula:	C8H24N4O3P2
SMILES:	CN(C)P(=O)(OP(=O)(N(C)C)N(C)C)N(C)C
Mol. weight [g/mol]:	286.25
CAS:	152-16-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.07		Crippen Method
logp	1.466		Crippen Method
mcvol	222.030	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	65.50	kJ/mol	344.00	NIST Webbook

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=C152169&Units=SI

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume