Dimefox

Other names:	BFP
	BFPO
	Bis(dimethylamido)-phosphoryl fluoride
	Bis(dimethylamido)fluorophosphate
	Bisdimethylaminofluorophosphine oxide
	CR 409
	DIFO
	ENT 19,109
	Fluophosphoric acid di(dimethylamide)
	Fluorure de N,N,N',N'-tetramethyle phosphoro-diamide
	Hanane
	N,N,N',N'-Tetramethyl-diamido-fluor-phosphin-oxid
	N,N,N',N'-Tetramethylphosphorodiamidic fluoride
	N,N,N,N-Tetramethylphosphorodiamidic fluoride
	Pestox 14
	Pestox IV
	Pestox XIV
	Phosphine oxide, bis(dimethylamino)fluoro-
	Phosphorodiamidic fluoride, tetramethyl-
	S-14
	T-2002
	TL 792
	Terra-Systam
	Terra-Sytam
	Terrasytum
	Tetra Sytam
	Tetramethyldiamidophosphoric fluoride
	Tetramethylphosphorodiamidic fluoride
	Wacker S 14/10
Inchi:	InChI=1S/C4H12FN2OP/c1-6(2)9(5,8)7(3)4/h1-4H3
InchiKey:	PGJBQBDNXAZHBP-UHFFFAOYSA-N
Formula:	C4H12FN2OP
SMILES:	CN(C)P(=O)(F)N(C)C
Mol. weight [g/mol]:	154.12
CAS:	115-26-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.75		Crippen Method
logp	1.187		Crippen Method
mcvol	115.280	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	50.40	kJ/mol	331.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.76408e+01
Coeff. B	-6.06086e+03
Temperature range (K), min.	312.00
Temperature range (K), max.	491.58

Sources

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=C115264&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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

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

pvap: Vapor pressure

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