

Phosphoramidous difluoride, dimethyl-

Other names:	(Dimethylamino)difluorophosphine Difluoro(dimethylamino)phosphine Dimethylphosphoramidous difluoride Dimethylaminodifluorophosphine
Inchi:	InChI=1S/C2H6F2NP/c1-5(2)6(3)4/h1-2H3
InchiKey:	GLCRDWZYRKGLLT-UHFFFAOYSA-N
Formula:	C2H6F2NP
SMILES:	CN(C)P(F)F
Mol. weight [g/mol]:	113.05
CAS:	814-97-1

Physical Properties

Property code	Value	Unit	Source
ie	10.20 ± 0.30	eV	NIST Webbook
ie	9.60	eV	NIST Webbook
ie	9.58	eV	NIST Webbook
ie	9.60	eV	NIST Webbook
log10ws	2.24		Crippen Method
logp	1.714		Crippen Method
mcvol	73.020	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	29.30	kJ/mol	288.00	NIST Webbook

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=C814971&Units=SI

Legend

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

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