4-Pyridinamine, N,N-dimethyl-

Other names:	4-(dimethylamino)pyridine
	4-Dimethylaminepyridine
	4-dimethylaminopyridine
	N,N-Dimethyl-4-aminopyridine
	N,N-Dimethyl-4-pyridinamine
	N,N-dimethylpyridin-4-amine
	Pyridine, 4-(dimethylamino)-
	p-Dimethylaminopyridine
	«gamma»-(Dimethylamino)pyridine
Inchi:	InChI=1S/C7H10N2/c1-9(2)7-3-5-8-6-4-7/h3-6H,1-2H3
InchiKey:	VHYFNPMBLIVWCW-UHFFFAOYSA-N
Formula:	C7H10N2
SMILES:	CN(C)c1ccncc1
Mol. weight [g/mol]:	122.17
CAS:	1122-58-3

Physical Properties

Property code	Value	Unit	Source
affp	997.60	kJ/mol	NIST Webbook
basg	971.10	kJ/mol	NIST Webbook
hfus	21.62	kJ/mol	Thermal Analysis and Calorimetric Study of 4-Dimethylaminopyridine
ie	8.30 ± 0.10	eV	NIST Webbook
ie	7.82	eV	NIST Webbook
log10ws	-1.15		Crippen Method
logp	1.148		Crippen Method
mcvol	105.690	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	21.63	kJ/mol	241.00	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Thermal Analysis and Calorimetric Study of 4-Dimethylaminopyridine:	https://www.doi.org/10.1021/je6005423
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1122583&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

affp:	Proton affinity
basg:	Gas basicity
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion 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