Methanimidamide, N,N-dimethyl-N'-phenyl-

Other names:	Formamidine, 3,3-dimethyl-1-phenyl
	Formamidine, N,N-dimethyl-N'-phenyl-
	N'-Phenyl-N,N-dimethylformamidine
	N,N-Dimethyl-N'-phenylformamidine
	N1N1-dimethyl-N2-phenylformamidine
Inchi:	InChI=1S/C9H12N2/c1-11(2)8-10-9-6-4-3-5-7-9/h3-8H,1-2H3
InchiKey:	SRPCLECGIYMIMN-UHFFFAOYSA-N
Formula:	C9H12N2
SMILES:	CN(C)C=Nc1ccccc1
Mol. weight [g/mol]:	148.21
CAS:	1783-25-1

Physical Properties

Property code	Value	Unit	Source
affp	983.80	kJ/mol	NIST Webbook
basg	951.30	kJ/mol	NIST Webbook
hf	157.19	kJ/mol	Joback Method
hvap	43.26	kJ/mol	Joback Method
ie	7.30 ± 0.10	eV	NIST Webbook
ie	7.30	eV	NIST Webbook
log10ws	-1.52		Crippen Method
logp	1.908		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
rinpol	1385.00		NIST Webbook
rinpol	1385.00		NIST Webbook
rinpol	1402.00		NIST Webbook
tb	521.12	K	Joback Method
tc	745.87	K	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	407.00 ± 1.00	K	2.70	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1783251&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

affp:	Proton affinity
basg:	Gas basicity
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature

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