N'-tert-Butyl-N,N-dimethylformamidine

Other names:	Dimethylaminomethylidene-t-butylamine N'-[1,1-Dimethylethyl]-N,N-dimethylimidoformamide (CH3)2N-CH=N(t-C4H9) Formamidine, N'-tert-butyl-N,N-dimethyl-
Inchi:	InChI=1S/C7H16N2/c1-7(2,3)8-6-9(4)5/h6H,1-5H3
InchiKey:	PHNRCFCIKPZSFS-UHFFFAOYSA-N
Formula:	C7H16N2
SMILES:	CN(C)C=NC(C)(C)C
Mol. weight [g/mol]:	128.22
CAS:	23314-06-9

Physical Properties

Property code	Value	Unit	Source
affp	1020.80	kJ/mol	NIST Webbook
basg	988.30	kJ/mol	NIST Webbook
hf	-46.81	kJ/mol	Joback Method
hvap	35.24	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	1.375		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
tb	445.45	K	Joback Method
tc	641.58	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C23314069&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature