Methanimidamide, N-(2,4-dimethylphenyl)-N'-methyl-

Other names: 2,4-Dimethylaniline, N-methylaminomethylene-N'-(2,4-dimethylphenyl)-N-methylformamidine
Inchi: InChI=1S/C10H14N2/c1-8-4-5-10(9(2)6-8)12-7-11-3/h4-7H,1-3H3,(H,11,12)
InchiKey: JIIOLEGNERQDIP-UHFFFAOYSA-N
Formula: C10H16N2
SMILES: CN=CNc1ccc(C)cc1C
Mol. weight [g/mol]: 164.25
CAS: 33089-74-6

Physical Properties

Property code	Value	Unit	Source
hf	99.55	kJ/mol	Joback Method
hvap	51.20	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.373		Crippen Method
mcvol	143.660	ml/mol	McGowan Method
pc	2579.34	kPa	Joback Method
tb	591.69	K	Joback Method
tc	817.36	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	89.20	kJ/mol	303.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C33089746&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

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature