N,n-di-methyl-amido-azo-benzol

Inchi: InChI=1S/C9H11N3O/c1-12(2)9(13)11-10-8-6-4-3-5-7-8/h3-7H,1-2H3/b11-10+
InchiKey: CHTGJYZCEGUFPY-ZHACJKMWSA-N
Formula: C9H11N3O
SMILES: CN(C)C(=O)N=Nc1ccccc1
Mol. weight [g/mol]: 177.20
CAS: 13444-02-5

Physical Properties

Property code	Value	Unit	Source
hf	9.61	kJ/mol	Joback Method
hvap	53.36	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	2.452		Crippen Method
mcvol	141.120	ml/mol	McGowan Method
pc	2624.46	kPa	Joback Method
tb	647.51	K	Joback Method
tc	885.91	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13444025&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

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