Benzenamine, N,N-diethyl-4-nitroso-

Other names:	Aniline, N,N-diethyl-p-nitroso-
	p-Nitroso-N,N-diethylaniline
	N,N-Diethyl-p-nitrosoaniline
	N,N-Diethyl-4-nitrosoaniline
	4-Nitroso-N,N-diethylaniline
	4-Diethylaminonitrosobenzene
	Diethyl-p-nitrosoaniline
	p-Nitrosodiethylaniline
	N,N-Diethyl-4-nitrosobenzenamine
	NSC 5418
Inchi:	InChI=1S/C10H14N2O/c1-3-12(4-2)10-7-5-9(11-13)6-8-10/h5-8H,3-4H2,1-2H3
InchiKey:	OLNMJIHADFYHAK-UHFFFAOYSA-N
Formula:	C10H14N2O
SMILES:	CCN(CC)c1ccc(N=O)cc1
Mol. weight [g/mol]:	178.23
CAS:	120-22-9

Physical Properties

Property code	Value	Unit	Source
hf	-125.33	kJ/mol	Joback Method
hsub	107.90 ± 3.70	kJ/mol	NIST Webbook
hvap	51.93	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.931		Crippen Method
mcvol	149.530	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
tb	535.70	K	Joback Method
tc	736.09	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C120229&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
hsub:	Enthalpy of sublimation 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