Piperidine, 1-nitroso-

Other names:	1-Nitrosopiperidine
	N-N-Pip
	N-Nitroso-piperidin
	N-Nitrosopiperidine
	NPIP
	Nitrosopiperidin
	No-Pip
	Pyridine, hexahydro-N-nitroso-
	Rcra waste number U179
Inchi:	InChI=1S/C5H10N2O/c8-6-7-4-2-1-3-5-7/h1-5H2
InchiKey:	UWSDONTXWQOZFN-UHFFFAOYSA-N
Formula:	C5H10N2O
SMILES:	O=NN1CCCCC1
Mol. weight [g/mol]:	114.15
CAS:	100-75-4

Physical Properties

Property code	Value	Unit	Source
chl	-3366.00 ± 1.00	kJ/mol	NIST Webbook
hf	17.00 ± 2.00	kJ/mol	NIST Webbook
hfl	-31.00 ± 1.00	kJ/mol	NIST Webbook
log10ws	-0.17		Aqueous Solubility Prediction Method
logp	1.154		Crippen Method
mcvol	91.980	ml/mol	McGowan Method
rinpol	185.84		NIST Webbook
rinpol	1040.00		NIST Webbook
rinpol	184.19		NIST Webbook
rinpol	1040.00		NIST Webbook
rinpol	184.19		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

hvapt	47.70	kJ/mol	358.00	NIST Webbook
hvapt	47.70 ± 0.80	kJ/mol	333.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	382.20	K	2.70	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C100754&Units=SI

Legend

chl: Standard liquid enthalpy of combustion

hf: Enthalpy of formation at standard conditions

hfl: Liquid phase enthalpy of formation 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

rinpol: Non-polar retention indices

tbrp: Boiling point at reduced pressure