1-Naphthalenol, 2-nitroso-

Other names:	1-Naphthol, 2-nitroso-
	«beta»-Nitroso-«alpha»-naphthol
	«beta»-Nitrosonaphthol
	C.I. 76610
	2-Nitroso-1-Naphthol
	2-Nitrosonaphthol
	1,2-naphthoquinone 2-oxime
Inchi:	InChI=1S/C10H7NO2/c12-10-8-4-2-1-3-7(8)5-6-9(10)11-13/h1-6,12H
InchiKey:	SYUYTOYKQOAVDW-UHFFFAOYSA-N
Formula:	C10H7NO2
SMILES:	O=Nc1ccc2ccccc2c1O
Mol. weight [g/mol]:	173.17
CAS:	132-53-6

Physical Properties

Property code	Value	Unit	Source
chs	-4873.60 ± 2.30	kJ/mol	NIST Webbook
chs	-4884.40	kJ/mol	NIST Webbook
hf	-5.44	kJ/mol	NIST Webbook
hsub	56.50 ± 4.20	kJ/mol	NIST Webbook
hvap	64.54	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	2.943		Crippen Method
mcvol	125.960	ml/mol	McGowan Method
pc	4528.58	kPa	Joback Method
tb	622.86	K	Joback Method
tc	865.96	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C132536&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

chs:	Standard solid enthalpy of combustion
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