

2-Naphthalenol, 1-nitroso-

Other names:	2-Naphthol, 1-nitroso- «alpha»-Nitroso-«beta»-naphthol 1-Nitroso-2-naphthol Nitroso-«beta»-naphthol C.I. 10000 «alpha»-Nitroso-«beta»-naftol 1-Nitroso-2-naftol Zelen moridlova 4 1-Nitroso-2-naphthalenol NSC 4151
Inchi:	InChI=1S/C10H7NO2/c12-9-6-5-7-3-1-2-4-8(7)10(9)11-13/h1-6,12H
InchiKey:	YXAOOTNFFAQIPZ-UHFFFAOYSA-N
Formula:	C10H7NO2
SMILES:	O=Nc1c(O)ccc2ccccc12
Mol. weight [g/mol]:	173.17
CAS:	131-91-9

Physical Properties

Property code	Value	Unit	Source
chs	-4884.90 ± 2.20	kJ/mol	NIST Webbook
chs	-4881.50	kJ/mol	NIST Webbook
hf	36.00	kJ/mol	NIST Webbook
hsub	86.60 ± 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

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C131919&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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