Benzenamine, 4-nitroso-N-phenyl-

Other names:	Diphenylamine, 4-nitroso-
	p-Nitroso-N-phenylaniline
	p-Nitrosodiphenylamine
	N-Phenyl-p-nitrosoaniline
	4-Nitrosodiphenylamine
	p-Nitrosodifenylamin
	NCI-C02244
	TKB
	4-Nitroso-N-phenylaniline
	4-Nitroso-N-phenylbenzenamine
	Naugard TKB
	NSC 5041
	p-Phenylaminonitrosobenzene
Inchi:	InChI=1S/C12H10N2O/c15-14-12-8-6-11(7-9-12)13-10-4-2-1-3-5-10/h1-9,13H
InchiKey:	OIJHFHYPXWSVPF-UHFFFAOYSA-N
Formula:	C12H10N2O
SMILES:	O=Nc1ccc(Nc2ccccc2)cc1
Mol. weight [g/mol]:	198.22
CAS:	156-10-5

Physical Properties

Property code	Value	Unit	Source
chs	-6364.40 ± 3.20	kJ/mol	NIST Webbook
hf	55.86	kJ/mol	Joback Method
hfs	213.10 ± 3.20	kJ/mol	NIST Webbook
hvap	63.05	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.828		Crippen Method
mcvol	153.950	ml/mol	McGowan Method
pc	3348.98	kPa	Joback Method
tb	645.87	K	Joback Method
tc	886.10	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C156105&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

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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