

Benzenamine, N-methyl-N-nitroso-

Other names:	Aniline, N-methyl-N-nitroso- Methylphenylnitrosamine N-Methyl-N-nitrosaniline N-Methyl-N-nitrosoaniline N-Methyl-N-phenylnitrosamine N-Methyl-N-phenylnitrosoamine N-Nitroso-N-methylaniline Phenylmethylnitrosamine N-Nitrosomethylphenylamine Nitrosomethylaniline NMA Methylnitrosoaniline N-Methyl-N-nitrosobenzenamine NSC 137
Inchi:	InChI=1S/C7H8N2O/c1-9(8-10)7-5-3-2-4-6-7/h2-6H,1H3
InchiKey:	MAXCWSIJKVASQC-UHFFFAOYSA-N
Formula:	C7H8N2O
SMILES:	CN(N=O)c1ccccc1
Mol. weight [g/mol]:	136.15
CAS:	614-00-6

Physical Properties

Property code	Value	Unit	Source
hf	-51.94	kJ/mol	Joback Method
hvap	44.59	kJ/mol	Joback Method
ie	9.01	eV	NIST Webbook
log10ws	-2.14		Crippen Method
logp	1.804		Crippen Method
mcvol	107.260	ml/mol	McGowan Method
pc	4010.84	kPa	Joback Method
tb	462.08	K	Joback Method
tc	669.89	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C614006&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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