4-Amino-4'-(dimethylamino)azobenzene

Other names:	Benzenamine, 4-[(4-aminophenyl)azo]-N,N-dimethyl-
	Aniline, 4-(p-dimethylaminophenylazo)-
	Acetile Diazo Black N
	Acetile Diazo Black R
	ADAB
	p-Aminobenzeneazodimethylaniline
	4'-Amino-dab
	4'-Amino-N,N-dimethyl-4-aminoazobenzene
	Aniline, N,N-dimethyl-4,4'-azodi-
	Azobenzene, 4-amino-4'-dimethylamino-
	C.I. 11025
	C.I. Disperse Black 3
	Diazo Nero Microsetile G
	Interchem Acetate Developed Black
	Meisei Acemyl Diazo Black B
	Meisei Teryl Diazo Black CR
	Microsetile Diazo Black G
	Supracet Diazo Black A
	4'-N,N-Dimethylamino-4-aminoazobenzene
	4-[(4-aminophenyl)azo]-N,N-dimethylaniline
Inchi:	InChI=1S/C14H16N4/c1-18(2)14-9-7-13(8-10-14)17-16-12-5-3-11(15)4-6-12/h3-10H,15H
InchiKey:	BVRIUXYMUSKBHG-UHFFFAOYSA-N
Formula:	C14H16N4
SMILES:	CN(C)c1ccc(N=Nc2ccc(N)cc2)cc1
Mol. weight [g/mol]:	240.30
CAS:	539-17-3

Physical Properties

Property code	Value	Unit	Source
hf	266.37	kJ/mol	Joback Method
hvap	71.99	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	3.750		Crippen Method
mcvol	196.220	ml/mol	McGowan Method
pc	2189.73	kPa	Joback Method
tb	817.21	K	Joback Method
tc	1075.93	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=C539173&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf:	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