

N,N-Dimethyl-4,4'-azodianiline

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]:	240.31

Physical Properties

Property code	Value	Unit	Source
hf	375.08	kJ/mol	Cheméo Relay (1.0)
hvap	97.58	kJ/mol	Cheméo Relay (1.0)
ie	6.61	eV	Cheméo Relay (1.0)
log10ws	-4.08		Cheméo Relay (1.0)
logp	3.750		Crippen Method
mcvol	196.220	ml/mol	McGowan Method
tb	671.33	K	Cheméo Relay (1.0)
tf	426.85	K	Cheméo Relay (1.0)

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C539173&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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