Benzenamine, N,N-dimethyl-4-[(3-methylphenyl)azo]-

Other names: Aniline, N,N-dimethyl-p-(m-tolylazo)-
MDAB
N,N-Dimethyl-p-(m-tolylazo)aniline
3-Methyl-4'-(dimethylamino)azobenzene
3'-Mdab
3',N,N-Trimethyl-4-aminoazobenzene
4-Dimethylamino-3'-methylazobenzene
3'-Methyl-4-dimethylaminoazobenzene
m'-Methyl-p-dimethylaminoazobenzene
3'-Me-dab
3'-Methyl-4-dimethylaminoazobenzen
3'-Methylbuttergelb
3'-Methyldimethylaminoazobenzol
3'Methyl-dab
4-(N,N-Dimethylamino)-3'-methylazobenzene
Aniline, N,N-dimethyl-p-(3'-methylphenylazo)-
3'-Methyl-N,N-dimethyl-4-aminoazobenzene
3'-Methyl-4-(N,N-dimethylamino)azobenzene
NSC 59783
N,N-dimethyl-4-(m-tolylazo)aniline

Inchi: InChI=1S/C15H17N3/c1-12-5-4-6-14(11-12)17-16-13-7-9-15(10-8-13)18(2)3/h4-11H,1-3H

InchiKey: LVTFSVIRYMXRSR-UHFFFAOYSA-N

Formula: C15H17N3

SMILES: Cc1cccc(N=Nc2ccc(N(C)C)cc2)c1

Mol. weight [g/mol]: 239.32

CAS: 55-80-1

Physical Properties

Property code	Value	Unit	Source
hf	211.94	kJ/mol	Joback Method
hvap	63.57	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	4.476		Crippen Method
mcvol	200.330	ml/mol	McGowan Method
pc	1906.90	kPa	Joback Method
tb	767.56	K	Joback Method
tc	1017.23	K	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C55801&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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