Amitraz

Other names:

1,5-Bis(2,4-dimethylphenyl)-3-methyl-1,3,5-triazapenta-1,4-diene
1,5-Di(2,4-dimethylphenyl)-3-methyl-1,3,5-triazapenta-1,4-diene
2,4-Xylidine, N,N'-(methyliminodimethylidyne)bis-
2-Methyl-1,3-di(2,4-xylylimino)-2-azapropane
Acadrex
Acarac
Amitraz estrella
Amitraze
Azadieno
Azaform
BAAM
BTS 27,419
BTS-27419
Boots BTS 27419
Bumetran
ENT 27967
Ectodex
Edrizar
Formamidine, N-methyl-N'-2,4-xylyl-N-(N-2,4-xylylformimidoyl)-
Fumilat A
Istambul
Maitac
Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl-
Mitaban
Mitac
Mtiaban
N'-(2,4-Dimethylphenyl)-N-(((2,4-dimethylphenyl)imino)methyl)-N-methylmethanimidamid
N'-(2,4-Dimethylphenyl)-N-([(2,4-dimethylphenyl)imino]methyl)-N-methylimidoformamide
N'-(2,4-dimethylphenyl)-N-[(2,4-dimethylphenyl)iminomethyl]-N-methylmethanimidamide
N,N'-((Methylimino)dimethylidyne)bis(2,4-xylidine)
N,N'-((Methylimino)dimethylidyne)di-2,4-xylidine
N,N-Bis(2,4-xylyliminomethyl)methylamine
N,N-Di-(2,4-xylyliminomethyl)methylamine
N-(2,4-Dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl-methaniminamid
N-Methyl-N'-2,4-xylyl-N-(N-2,4-xylylformimidoyl)formamidine
N-Methyl-bis(2,4-xylyliminomethyl)amine
NSC 324552
OMS 1820
Ovasyn
R.D. 27419

	Taktic
	Triatix
	Triatox
	Triazid
	Tudy
	U-36059
	Upjohn U-36059
Inchi:	InChI=1S/C19H23N3/c1-14-6-8-18(16(3)10-14)20-12-22(5)13-21-19-9-7-15(2)11-17(19)4
InchiKey:	QXAITBQSYVNQDR-UHFFFAOYSA-N
Formula:	C19H23N3
SMILES:	Cc1ccc(N=CN(C)C=Nc2ccc(C)cc2C)c(C)c1
Mol. weight [g/mol]:	293.41
CAS:	33089-61-1

Physical Properties

Property code	Value	Unit	Source
hf	223.66	kJ/mol	Joback Method
hvap	73.76	kJ/mol	Joback Method
log10ws	-4.61		Aqueous Solubility Prediction Method
log10ws	-5.47		Estimated Solubility Method
logp	4.872		Crippen Method
mcvol	252.390	ml/mol	McGowan Method
pc	1421.85	kPa	Joback Method
rinpol	2526.00		NIST Webbook
tb	873.20	K	Joback Method
tc	1114.90	K	Joback Method

Sources

Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C33089611&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature