IMIDACLOPRID

Other names:	1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine
	2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-
Inchi:	InChI=1S/C9H10ClN5O2/c10-8-2-1-7(5-12-8)6-14-4-3-11-9(14)13-15(16)17/h1-2,5H,3-4,
InchiKey:	YWTYJOPNNQFBPC-UHFFFAOYSA-N
Formula:	C9H10ClN5O2
SMILES:	O=[N+]([O-])/N=C1/NCCN1Cc1ccc(Cl)nc1
Mol. weight [g/mol]:	255.67

Physical Properties

Property code	Value	Unit	Source
logp	0.688		Crippen Method
mcvol	168.330	ml/mol	McGowan Method
tf	417.15	K	Solubility of Imidacloprid in Different Solvents

Sources

Solubility of Imidacloprid in Different Solvents:	https://www.doi.org/10.1021/je7004038
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C138261413&Units=SI
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

logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point