

# Imidacloprid

<b>Other names:</b>	1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine 2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-
<b>Inchi:</b>	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,
<b>InchiKey:</b>	YWTYJOPNNQFBPC-UHFFFAOYSA-N
<b>Formula:</b>	C9H10ClN5O2
<b>SMILES:</b>	O=[N+][O-]NC1=NCCN1Cc1ccc(Cl)nc1
<b>Mol. weight [g/mol]:</b>	255.66
<b>CAS:</b>	138261-41-3

## Physical Properties

Property code	Value	Unit	Source
log10ws	-2.94		Crippen Method
logp	0.688		Crippen Method
mcvol	168.330	ml/mol	McGowan Method
tf	417.15	K	Solubility of Imidacloprid in Different Solvents

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C138261413&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C138261413&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Solubility of Imidacloprid in Different Solvents:</b>	<a href="https://www.doi.org/10.1021/je7004038">https://www.doi.org/10.1021/je7004038</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>tf:</b>	Normal melting (fusion) point

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