

# Zolpidem

**Other names:**

Ambien  
Ambien CR  
Imidazo[1,2-a]pyridine-3-acetamide, N,N,6-trimethyl-2-(4-methylphenyl)-  
Imidazol[1,2-a]pyridine-3-acetamide, N,N,6-trimethyl-2-(4-methylphenyl)-  
N, N-Dimethyl-2- (6-Methyl-2 (4-methylphenyl) imidazo [1,2-a] pyridin-3-Yl)  
acetamide  
N,N,6-Trifmethyl-2-p-tolyimidazo[1,2-a]pyridine-3-acetamide  
N,N-dimethyl-2-[6-methyl-2-(4-methylphenyl)imidazo[3,2-a]pyridin-3-yl]acetamide  
SL-800750

**Inchi:**

InChI=1S/C19H21N3O/c1-13-5-8-15(9-6-13)19-16(11-18(23)21(3)4)22-12-14(2)7-10-17(2)

**InchiKey:**

ZAFYATHCZYHLPB-UHFFFAOYSA-N

**Formula:**

C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O

**SMILES:**

Cc1ccc(-c2nc3ccc(C)cn3c2CC(=O)N(C)C)cc1

**Mol. weight [g/mol]:**

307.39

**CAS:**

82626-48-0

## Physical Properties

Property code	Value	Unit	Source
log10ws	-1.30		Aqueous Solubility Prediction Method
logp	3.249		Crippen Method
mcvol	247.400	ml/mol	McGowan Method
rinpol	2788.00		NIST Webbook
rinpol	2908.20		NIST Webbook
rinpol	2908.20		NIST Webbook

## Sources

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C82626480&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

# 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>rinpol:</b>	Non-polar retention indices

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