

2017

Lunesta

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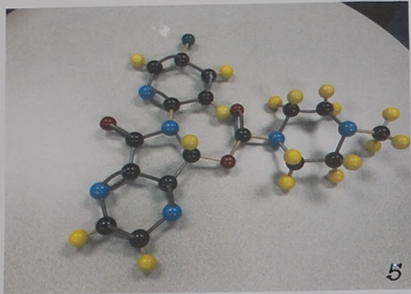
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LUNESTA

Molar Mass
 17 moles C (12.01 g/1 mol C) = 204.17g/ C
 17 moles H (1.01g/1 mol H) = 17.17g/ H
 6 moles N (14.01g/1 mol N) = 84.06 g/N
 3 moles O (16.00g/1 mol O) = 48.00g/O
 1 mole Cl (35.45g/1 mol Cl) = 35.45g/Cl
 204.17g+17.17+84.06+48.00+35.45g=
388.85g/mol C₁₇H₁₇ClN₆O₃
 Literature Value: **388.81 g/mol**
725

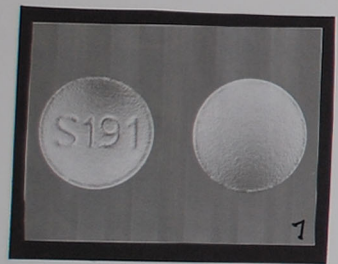


Eszopiclone
 By: Mary Kreie CHE-106-001

Water Solubility
 0.885 mg/mL
 0.885mg/mL (1g/1000 mg) (100/100) = 0.0885g/100 mL
 Eszopiclone is insoluble in water.
672



Administration & Absorption
 Eszopiclone should be administered orally. Orally meaning the pill should be swallowed by mouth. This drug is rapidly absorbed by the GI tract. The GI tract is the pathway that food takes from your mouth, through the esophagus, stomach, small and large intestine. Once the drug has been absorbed it is believed to interact with GABA receptor complexes. This causes the body to engage in sleep-inducing anti-anxiety, and muscle relaxing properties.
49

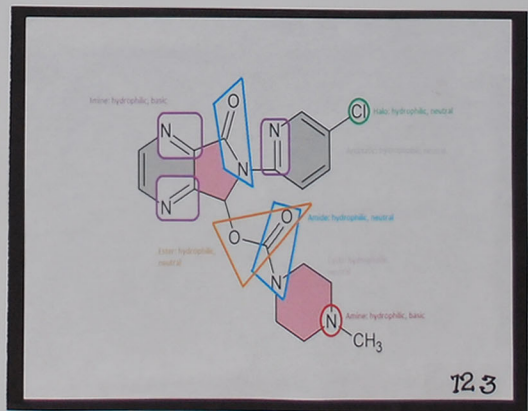


Classification:
 Eszopiclone is used to treat insomnia. According to the Pearson Nurse's Drug Guide (2017), there are no unlabeled used for this drug.

Chemical Name:
 4-Methyl-1-piperazinecarboxylic acid 6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b]pyrazine-5-yl ester; 6-(5-chloropyrid-2-yl)-5-(4-methylpiperazin-1-yl)carboxyloxy-7-oxo-6,7-dihydro-5H-pyrrolo[3,4-b]pyrazine;
415

Generic Name: Eszopiclone
Trade name: Lunesta
4

Metabolism and Elimination
 Once the body has used the drug, the body breaks down the medication by extensive hepatic metabolism. Hepatic metabolism means that the breakdown of the medication occurs in the liver. Once metabolized, the body disposes of Eszopiclone primarily by urine.
4



Dosage: Adult: 1 milligram orally at bedtime; may increase dosage if needed
Supply: Eszopiclone/Lunesta Oral Tab: 1mg, 2mg, 3mg
 (1 milligram/1 dose)(1 oral tab/1 milligram)= 1 oral capsule per dose.
4872

Sources

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