2017

Zoloft/Sertraline HCl

Loretta Banks

Parkland College

Recommended Citation

https://spark.parkland.edu/nsps/128

Open access to this Poster is brought to you by Parkland College's institutional repository, SPARK: Scholarship at Parkland. For more information, please contact spark@parkland.edu.
Zoloft

C₁₇H₁₇Cl₂N·HCl

Trade Name:
Zoloft

Generic Name:
Sertraline Hydrochloride

Chemical Name
(C₅H₅N)₂·{1,1,1-Trifluoropropyl}·2,3,4,5-Tetrahydro-5-methyl-1H-pyrrolin-1-one hydrochloride

Classification
Antidepressant
Selective Serotonin Reuptake Inhibitor (SSRI)

Molar Mass:
Sertraline Hydrochloride: C₁₇H₁₇Cl₂N·HCl
37 mol% C (12.01g/1mol) = 204.17g
38 mol% H (1.01g/1mol) = 3.81g
3 mol% N (14.01g/1mol) = 4.20g
3 mol% O (16.00g/1mol) = 4.80g
Total Molar Mass
342.71g/mol Sertraline Hydrochloride

Literature Molar Mass:
342.69g/mol C₁₇H₁₇Cl₂N·HCl

References

Uses
The initial use of Sertraline Hydrochloride were effective in the treatment symptoms of major depression, anxiety, panic attack disorder, panic disorder, social anxiety disorder, generalized anxiety disorder, posttraumatic stress disorder.

Dosing Example
The following is an example dosage of Zoloft to treat an adult suffering from anxiety.

Availability: Tablets, tablet, & tablets, & tablets.

Route and Dosage: Tablets by mouth. Zoloft therapy begins with 50mg per day, gradually increasing dosage every four weeks according to the body's response. Zoloft has a range of 50mg to 150mg per day.

The Body’s Processing of the Drug

How the Body Takes It In
Sertraline hydrochloride is a salt and is readily absorbed into the bloodstream. The medication is absorbed by the liver and then excreted through the kidneys, which is also known as the kidneys.

What the Body Does With The Drug After Absorption
Electric charge --- an inhibitor of serotonin transport in the brain to maintain and keep the serotonin transport in the brain to maintain and keep the serotonin transport in the brain.

How the Body Breaks Down the Drug
Sertraline hydrochloride undergoes conversion in the dopamine and in the body, the dopamine and in the body, the dopamine and in the body, the dopamine and in the body.

How Does the Body Eliminate
The body excretes the drug into the urine. The drug is not excreted into the urine. The drug is not excreted into the urine.

Loretta Banks
Parkland College
CHE 106-001

Condensed Structure with Functional Groups