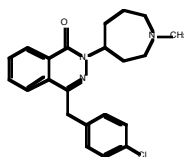




Certificate of Analysis



$C_{22}H_{24}ClN_3O$ Mol. Wt.: 381.90 [58581-89-8]

Product: Azelastine HCl

Catalog No. A9818

Lot No. 23921708

CAS No.

Test Type:

Test	Specification	Results
Appearance	White Crystalline Powder	Complies
Optical Rotation	-0.05 ~ +0.05°	0.00°
Identification	As Stipulated	Complies
Loss on Drying	≤1%	0.5%
Assay	98.5% ~ 101.0%	99.0%

Complies: With BP2000.

This Product Intended For Laboratory and Research Use Only

Material Safety Data Sheet

LKT Laboratories, Inc.
2233 University Ave. W.
St. Paul, MN 55114
Tel: 651-644-8424
Fax: 651-644-8357
URL: www.lktlabs.com
Email: info@lktlabs.com

Section I- Product Identification

Name:	Azelastine HCl	Product Number:	A9818
Chemical Name:	(±)-1-(2H)-phthalazinone, 4-[(4-chlorophenyl) methyl] -2-(hexahydro-1 -methyl-1H-azepin- 4-yl)-, mono- hydrochloride		
CAS Number:	79307-93-0	Synonym:	4-[(4-chlorophenyl)methyl]-2-(hexahydro-1-methyl-1H-azepin-4-yl)-1(2H)-phthalazinone hydrochloride; A 5610; allergodil; astelin; azeptin; optivar; rinolas
Molecular Formula:	C ₂₂ H ₂₄ ClN ₃ O	Molecular Weight:	418.37

Section II- Health Hazard

LD ₅₀ :	Not Available
Classification:	Not Available
Target Organs:	Not Available
Route of Exposure:	May be harmful by inhalation, ingestion or skin absorption.
Effects of Over Exposure:	The chemical, physical and toxicological properties have not been thoroughly investigated.
Other Effects:	Not Available

Section III- Fire and Explosion

Flash Point:	Not Available
Extinguishing Media:	Water spray, dry chemical powder, carbon dioxide, polymer foam.
Firefighting Procedures:	Wear self-contained breathing apparatus and protective clothing.
Unusual Fire Hazards:	May emit toxic fumes under fire conditions.

Section IV- First Aid

Eye Contact:	Remove contact lenses. Flush with water for at least 15 minutes and seek medical attention immediately.
Skin Contact:	Wash with soap and water for 15 minutes and seek medical attention immediately. Wash contaminated clothing before use.
Inhalation:	Remove from exposure and provide respiration support if necessary. Seek medical attention.
Ingestion:	Rinse mouth with water. Contact a physician or poison control immediately.

Section V- Physical Data

<i>Physical State:</i>	Solid	<i>Color:</i>	White
<i>Boiling Point:</i>	Not Available	<i>Volatility:</i>	Not Available
<i>Melting Point:</i>	225°C	<i>Density:</i>	Not Available
<i>Solubility:</i>	Slightly soluble in ethanol, octanol or glycerine.		

Section VI- Chemical Hazard

<i>Stability:</i>	Stable
<i>Materials To Avoid:</i>	Keep away from heat and strong oxidizing agents.
<i>Hazardous Decomposition Products:</i>	Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas.
<i>Other Remarks:</i>	None

Section VII- Handling and Storage

<i>Storage Conditions:</i>	Store in a cool, dry place in a tightly closed container.
<i>Handling:</i>	Wear gloves, goggles, and lab coat when handling this material. Use in a well ventilated area. Use only in a chemical fume hood. Wash thoroughly after handling material.

Section VIII- Spillage

<i>Cleanup Procedures:</i>	Use appropriate tools to collect material and dispose of in waste container. Avoid raising dust. Ventilate the area and wash spill site after material has been removed.
<i>Waste Disposal:</i>	Dispose of material according to all federal, state and local regulations.

Section IX- Other Information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 9/9/2005

**For emergencies in the USA call
CHEMTREC 800-424-9300**