



Serving Scientific Community  
Since 1985



**TECHNO PHARMCHEM**

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)  
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)  
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)  
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com  
Website : www.technopharmchem.com

## L – LYSINE HYDROCHLORIDE

### 1. Product Identification

Synonyms: L-(+)-Lysine monohydrochloride

CAS No.: 657-27-2

Molecular Weight: 182.65

Chemical Formula:  $C_6H_{14}N_2O_2.HCl$

Product Code: 36073

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
L – Lysine Hydrochloride	657-27-2	> 99%

### 3. Hazards Identification

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Expected to be a low ingestion hazard.

Inhalation: May cause respiratory tract irritation.

Chronic: Not available.

### 4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

### 5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

### 6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.



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## 7. Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container

## 8. Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA - Final PELs</u>
L-(+)-Lysine monohydrochloride	none listed	none listed	none listed

OSHA Vacated PELs: L-(+)-Lysine monohydrochloride: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

## 9. Physical and Chemical Properties

Physical State: Solid

Appearance: white

Odor: Practically odorless.

pH: 5.8(100g/l H<sub>2</sub>O 20C)

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 263-264 deg C

Decomposition Temperature: > 240 deg C

Solubility: Soluble in water: 649.5 g/l (20C)

Specific Gravity/Density: Not available.

Molecular Formula: C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>.HCl

Molecular Weight: 182.65

## 10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.



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#### 11. Toxicological Information

LD50/LC50:

CAS# 657-27-2:

Oral, rat: LD50 = 10 gm/kg;

Carcinogenicity:

CAS# 657-27-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

#### 12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found

#### 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

Not Regulated

#### 15. Regulatory information

Safety, health and environmental : Ensure all national/local regulations are observed.  
regulations/legislation specific for the substance or mixture

Chemical Safety Assessment: It has not been carried out.

#### 16. Other information

Product Use

Laboratory Reagent