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## L-CYSTINE

### 1. Product Identification

Synonyms: L-Cystine 99%; Cystine acid; 3,3'-Dithiobis(2-aminopropionic acid)

CAS No.: 56-89-3

Molecular Weight: 240.30

Chemical Formula:  $C_6H_{12}N_2O_4S_2$

Product Codes: 30862

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
L-Cystine	56-89-3	90 - 100%

### 3. Hazards Identification

Potential Health Effects

Inhalation: No adverse health effects expected from inhalation.

Ingestion: Large doses may cause gastro-intestinal upset.

Skin Contact: No adverse effects expected.

Eye Contact: No adverse effects expected.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

### 4. First Aid Measures

Inhalation: Not expected to require first aid measures. Remove to fresh air.

Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

### 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

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

### 8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: Not expected to require any special ventilation.

Personal Respirators (NIOSH Approved): Not expected to require personal respirator usage.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles.

### 9. Physical and Chemical Properties

Appearance: White crystals.

Odor: No information found.

Solubility: Soluble in water.

Specific Gravity: No information found.

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: Not applicable.

Melting Point: 258 - 261C (496 - 502F) Decomposes.

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

### 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides.

Hazardous Polymerization: Will not occur.

Incompatibilities: No information found.

Conditions to Avoid: No information found.

### 11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
L-Cystine (56-89-3)	No	No	None

### 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

REACH Restrictions : The components of this product are not subject to restrictions.

REACH Authorisation : The components of this product are not subject to authorization.

Chemical Safety Assessment : It has not been carried out.

### 16. Other Information

Product Use:

Laboratory Reagent.