

Material Safety Data Sheet (MSDS)

L-Glutamic Acid

Revision Date: 26-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** L-Glutamic Acid
- **Chemical Formula:** C₅H₉NO₄
- **CAS No:** 56-86-0
- **Synonyms:** Glutamic acid, (S)-2-Aminopentanedioic acid
- **Recommended Use:** Used in pharmaceuticals, food additives, nutritional supplements, and laboratory reagents.

Section 2: Hazards Identification

- **Classification (GHS):** Not classified as hazardous under GHS criteria.
- **Signal Word:** None
- **Hazard Statements:** Not considered hazardous under normal conditions of use.
- **Precautionary Statements:**
 - Handle in accordance with good industrial hygiene and safety practices
 - Avoid dust generation and inhalation
 - Wash hands thoroughly after handling

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Section 3: Composition / Information on Ingredients

- **Concentration:** 98%

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If discomfort occurs, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Seek medical attention if feeling unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Not considered highly flammable, but may decompose under fire conditions releasing nitrogen oxides and carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up and collect in suitable containers for disposal. Wash spill area with water.

Section 7: Handling and Storage

- **Handling:** Avoid generating dust. Use with adequate ventilation. Practice good hygiene.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation where dust may form.
- **Personal Protective Equipment:** Safety goggles, gloves, protective clothing. Dust mask or respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Melting Point:** 225 °C (decomposes)
- **Solubility:** Soluble in water; insoluble in ethanol and ether
- **Molecular Weight:** 147.13 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong bases.
- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides.
- **Conditions to Avoid:** Excessive heat, moisture.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Low toxicity; may cause mild irritation to skin, eyes, or respiratory tract.
- **Chronic Effects:** No known significant effects.
- **Toxicity Data:** Oral LD50 (rat): >5,000 mg/kg.

Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be hazardous to the environment.
- **Persistence and Degradability:** Biodegradable.
- **Bioaccumulative Potential:** Low potential.
- **Mobility in Soil:** High mobility due to solubility in water.

Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Avoid release into the environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** L-Glutamic Acid
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Not classified as hazardous under GHS.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.