

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

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

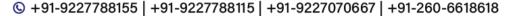
• Synonyms: Glutamic acid, (S)-2-Aminopentanedioic acid

• 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

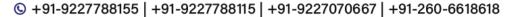
- Inhalation: Move person to fresh air. If discomfort occurs, seek medical attention.
- Skin Contact: Wash with plenty of soap and water. Seek medical advice if irritation develops.
- Eye Contact: Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- Ingestion: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



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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.

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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



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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.

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