

Product Name:	L-Glutamic acid	Version:	1
Product Code:	881, 882	Date:	2015-02-06
Manufacturer:	AMINO GmbH		

1. Substance/ Preparation of the substance and name of the company

1.1 Substance name

L-Glutamic acid

1.2 Name and address of the manufacturer and supplier

Amino GmbH
An der Zucker-Raffinerie 9
38373 Frellstedt
Germany

Phone: +49 5355/ 91 00 0
Fax: +49 5355/ 91 00 713
Emergency Information:
Emergency Telephone: +49 53 55/ 91 00 0 (from Monday to Friday between 8 am and 5 pm)
Contact for information: msds@amino.de

1.3 Use of substance/preparation

infusion and injection, pharmaceutical actives, intermediates, specialized nutritional products, cell culture media, excipients

2. Hazards identification

The present results for assessment are not applicable for classification by hazard characteristics according to the guideline 67/ 548/ EWG and CLP-regulation no. 1272/2008 and the appropriate national legislation.

3. Composition/ Information on ingredients

CAS No.: 56-86-0
EC No.: 200-293-7
Molecular weight: 147.13 g/mol
Formula: $C_5H_9NO_4$
Chemical name: 2-Aminoglutaric acid

4. First aid measures

4.1 General: --
4.2 Inhalation: Remove patient to fresh air and seek medical advice in case of irritation.
4.3 Skin contact: Wash exposed area with water. Get medical advice if irritation develops.
4.4 Eye contact: Rinse thoroughly with water whilst lifting eyelids. Seek medical advice.
4.5 Ingestion (bigger amounts): Rinse mouth and drink plenty of water. Do not induce vomiting. In case of indisposition seek medical advice .
4.6 Notes to physicians: --

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5. Fire fighting measures

- 5.1 Fire extinguishing media: Water spray, dry chemical, alcohol foam or carbon dioxide.
- 5.2 Particular hazards: Flammable. In case of fire hazardous fumes might emerge.
- 5.3 In case of fire might emerge: Nitrogen gases.
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6. Accidental release measures

- 6.1 Precautionary measures: Avoid raising dust. Don't inhale dust.
- 6.2 Clean up activities: Sweep up dry, dispose as waste and clean subsequently.
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7. Handling and storage

- 7.1 Handling: No particular requirements.
- 7.2 Storage: Dry and in tightly closed containers at room temperature.
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8. Exposure controls and personal protection

- 8.1 Personal protection:
- | | |
|-----------------------|-----------------------------|
| Breathing protection: | dustmask P1 |
| Eye protection: | protective glasses |
| Hand protection: | protective gloves |
| Body protection: | suitable protective clothes |
- 8.2 Informations on working hygiene: Wash hands thoroughly after contact with the material. Dispose of contaminated clothing.
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9. Physical and chemical properties

- 9.1 Appearance:
- | | |
|---------|------------------|
| Form: | crystals |
| Colour: | white |
| Odour: | characteristical |

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9.2 Security relevant data:pH value: 3.0 – 3.5 (10 g/L H₂O, 25°C)

Melting temperature:	160°C
Boiling temperature:	not available
Ignition temperature:	not available
Combustion point:	not available
Explosion limits:	lower not available
	upper not available

Density:	1.54 g/cm ³ (20°C)
Bulk density:	460 kg/m ³ (20°C)

Solubility in water (20°C) 7.2 g/L H₂O

Thermal decomposition: not available

10. Stability and reactivity10.1 Incompatible materials and conditions to avoid:
Strong oxidizing agents, heating10.2 Hazardous combustion and decomposition products:
Nitrogen gases

11. Toxicological information11.1 Acute toxicity:
Classification relevant LD/LC 50 values: not known11.2 Primary irritation:
May cause eye irritation.

11.3 Chronic effects: --

11.4 Experiences on humans: --

11.5 Other toxic information:
No toxic health effects known when properly stored.11.6 Other information:
This material is to handle with the necessary care as for chemicals.

12. Ecological information

At proper handling and use no ecological harms are known. Bioaccumulation is not expected (log P(o/w)<1).

Other informations: none

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13. Disposal information

Product:
Disposal according to legal regulations.

Packaging:
Disposal according to legal regulations.

14. Transportation information

No hazardous material according to transportation regulations.

15. Regulatory information

15.1 Labelling according to EU regulations

The present results for assessment are not applicable for classification by hazard characteristics according to the guideline 67/ 548/ EWG and CLP-regulation no. 1272/2008 and the appropriate national legislation, therefore no hazardous symbol, labelling and R-phrases / H-phrases and S-phrases / P-phrases are necessary.

15.2 German regulations:

Water hazardous classification: 1
Others: storage class VCI: 10-13

16. Other information

The data given herein are based on current knowledge and experience. There is no demand of completeness and the user should consider this Safety Data Sheet only as a guide.

Revision index

reason of revision	valid from
Version 1: issue of this document	2015-02-06