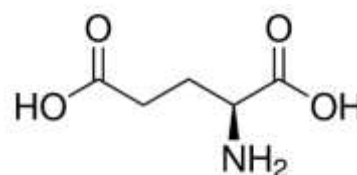


## L-GLUTAMIC ACID

|                             |                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------|
| PRODUCT CODE                | H19415                                                                                                     |
| SYNONYMS                    | [L-a-Aminoglutaric acid]                                                                                   |
| C.I. NO.                    | --                                                                                                         |
| CASR NO.                    | (56-86-0)                                                                                                  |
| ATOMIC OR MOLECULAR FORMULA | C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>                                                              |
| ATOMIC OR MOLECULAR WEIGHT  | 147.13                                                                                                     |
| PROPERTIES                  | Practically insoluble in methanol, ethanol, ether, acetone and cold glacial acetic acid. Sublimes at 200°C |



| PARAMETER                                              | LIMIT                                              |
|--------------------------------------------------------|----------------------------------------------------|
| Description                                            | White crystalline powder.                          |
| Solubility                                             | 5% solution in dilute HCl is clear and colourless. |
| Minimum Assay (Non-aqueous)                            | 99.0%                                              |
| Specific Rotation [ (α) D <sub>20</sub><br>C=2, 5NHCl] | +29° to +33°                                       |
| Homogeneity by TLC                                     | Passes test                                        |

### MAXIMUM LIMIT OF IMPURITIES

|                             |        |
|-----------------------------|--------|
| Loss on drying (at 110°C)   | 0.5%   |
| Sulphated ash               | 0.1%   |
| Chloride (Cl)               | 0.02%  |
| Sulphate (SO <sub>4</sub> ) | 0.01%  |
| Iron (Fe)                   | 0.001% |
| Heavy Metals (Pb)           | 0.001% |
| Ammonium (NH <sub>4</sub> ) | 0.01%  |

**Note(s):** Assay (if applicable) method mentioned.

#### WARNING

**Hazard statements:** Not hazardous. No hazards.

#### Precautionary statements

**Prevention:** -----

**Response:**

**Disposal:**---

IMDG Code :--

UN No. :--

IATA :--

Hazard Pictogram(s) : --