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Product Datasheet

GM3277 - L-Glutamic acid

Product Details

Product Name L-Glutamic acid

Glentham Code GM3277 **CAS Number** 56-86-0 **EINECS** 200-293-7

MDL Number MFCD00002634 PubChem SID 310274214

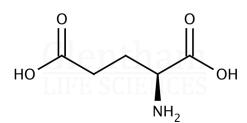
Related Categories Amino Acids, Biochemicals,

Raw Materials (IVD), Reagents

for Cell Culture

Structure

Molecular Weight : 147.13 Molecular Formula C₅H₀NO₄



Storage

Recommended storage temperature: +20°C.

Hazards and Transport

Not classified as hazardous under CLP. Not classified as dangerous for transport.

Glentham Product Specification

Physical : White to almost white crystalline

Description powder

Identification (IR) : To conform to standard Solubility (10% in : Clear, colourless solution

2M HCI)

Transmittance : ≥ 98.0%

Specific Optical : +31.5 - +32.4 ° (c=10, 2M HCI)

Rotation $([\alpha]20/D)$

рΗ : 3.0 - 3.5 Heavy Metals (as Pb) : ≤ 10ppm

Arsenic (As) : ≤ 1ppm Iron (Fe) ≤ 10ppm Ammonium ≤ 0.02%

(NH4)

Sulphate (SO4) : ≤ 0.02% Chloride (CI) ≤ 0.02%

Other Amino : None detected

Acids

Any Individual ≤ 0.5%

Impurity (TLC)

Total Impurities : ≤ 2.0%

(TLC)

Residue on : ≤ 0.1%

Ignition

Loss on Drying $\leq 0.1\% (105^{\circ}C, 3h)$

Assay (Titration) : 99.0 - 101.0 % (dried basis)

Pharmacopoeia

: USP, AJI

Specification(s)

Version : v1.2

About L-Glutamic acid

Glutamic acid is a non-essential amino acid. It is one of the most abundant amino acids and has key functions in multiple metabolic pathways. Glutamate, the anionic form of glutamic acid, is an excitatory neurotransmitter and precursor to GABA. Glutamic acid is also an important constituent in cell culture media.

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