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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-Nummer MFCD00002634
PubChem SID 310274214

Related Categories Amino Acids, Biochemicals,

Raw Materials (IVD), Reagents

for Cell Culture

Structure

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 ([α]20/D)

otation

pH : 3.0 - 3.5 Heavy Metals : ≤ 10ppm

Heavy Metals (as Pb)

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 : ≤ 0.1% (105°C, 3h)

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

Pharmacopoeia

Specification(s)

: USP, AJI

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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