

Product Datasheet

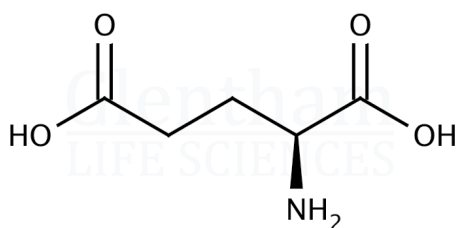
GM3277 - L-Glutamic acid

Product Details

Product Name	L-Glutamic acid
Glenthams 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	: C ₅ H ₉ NO ₄



Physical Description	: White to almost white crystalline powder
Identification (IR)	: To conform to standard
Solubility (10% in 2M HCl)	: Clear, colourless solution
Transmittance	: ≥ 98.0%
Specific Optical Rotation ([α] _{20/D})	: +31.5 - +32.4 ° (c=10, 2M HCl)
pH	: 3.0 - 3.5
Heavy Metals (as Pb)	: ≤ 10ppm
Arsenic (As)	: ≤ 1ppm
Iron (Fe)	: ≤ 10ppm
Ammonium (NH ₄)	: ≤ 0.02%
Sulphate (SO ₄)	: ≤ 0.02%
Chloride (Cl)	: ≤ 0.02%
Other Amino Acids	: None detected
Any Individual Impurity (TLC)	: ≤ 0.5%
Total Impurities (TLC)	: ≤ 2.0%
Residue on Ignition	: ≤ 0.1%
Loss on Drying	: ≤ 0.1% (105°C, 3h)
Assay (Titration)	: 99.0 - 101.0 % (dried basis)
Pharmacopoeia Specification(s)	: USP, AJI
Version	: v1.2

Storage

Recommended storage temperature: +20°C.

Hazards and Transport

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

Glenthams Product Specification

About L-Glutamic acid

No further details on record.

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