

Molecular Formula

Storage Temp.

Glentham Life Sciences Ltd Unit 5 Leafield Way Corsham SN13 9SW United Kingdom

t: +44 (0) 1225 667 798 f: +44 (0) 2033 978 909 e: info@glentham.com w: www.glentham.com

Product Specification

 Product Name
 L-Glutamic acid

 Glentham Code
 GM3277

 CAS Number
 56-86-0

 EINECS
 200-293-7

 MDL Number
 MFCD00002634

 PubChem SID
 310274214

 Molecular Weight
 147.13

 $C_5H_9NO_4$

+20°C

$$HO \longrightarrow OH$$
 NH_2
 OH

Property	Specification
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 HCI)
рН	3.0 - 3.5
Heavy Metals (as Pb)	≤ 10ppm
Arsenic (As)	≤ 1ppm
Iron (Fe)	≤ 10ppm
Ammonium (NH4)	≤ 0.02%
Sulphate (SO4)	≤ 0.02%
Chloride (CI)	≤ 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

Specification Version - v1.2

Date Created - 2024-03-04

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025

Page 1 of 1 Printed: 2025-04-19 01:00:34