

Molecular Formula

Storage Temp.

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## **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 HCI)	Clear, colourless solution
Transmittance	≥ 98.0%
Specific Optical Rotation ([α]20/D)	+31.5 - +32.4 ° (c=10, 2M HCl)
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

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