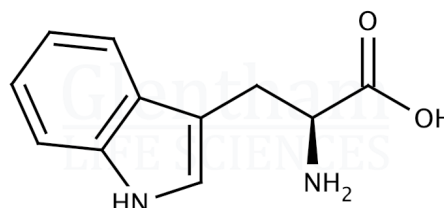


## Product Specification

Product Name	L-Tryptophan
Glentham Code	GM0674
CAS Number	73-22-3
EINECS	200-795-6
MDL Number	MFCD00064340
PubChem SID	310281481
Molecular Weight	204.23
Molecular Formula	$C_{11}H_{12}N_2O_2$
Storage Temp.	+20°C



Property	Specification
Physical Description	White to off-white powder
Identification (IR)	To conform to standard
pH (1% in water)	5.5 - 7.0
Specific Optical Rotation ([α] <sub>25/D</sub> )	-29.4 - -32.8 ° (10mg/ml, water)
Loss on Drying	≤ 0.3% (105°C, 3h)
Residue on Ignition	≤ 0.1%
Lead (Pb)	≤ 3ppm
Arsenic (As)	≤ 1ppm
Cadmium (Cd)	≤ 1ppm
Mercury (Hg)	≤ 0.1ppm
Chloride	≤ 0.05%
Sulphate	≤ 0.03%
Iron (Fe)	≤ 30ppm
Heavy Metals	≤ 15ppm
Organic Impurities	≤ 0.01% of total impurities prior to peak and ≤ 0.03% of total impurities after peak
Related Compound A	To pass test
Assay	98.5 - 101.5 % (dried basis)
Pharmacopoeia Specification(s)	USP

Specification Version	-	v1.2
Date Created	-	2020-01-02

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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