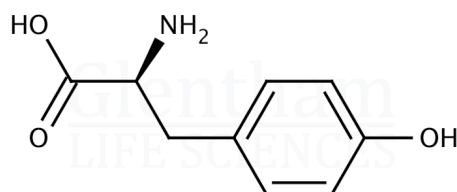


## Product Specification

Product Name	L-Tyrosine, USP grade, non-animal origin
Glentham Code	GM1911
CAS Number	60-18-4
EINECS	200-460-4
MDL Number	MFCD00002606
Molecular Weight	181.19
Molecular Formula	$C_9H_{11}NO_3$
Storage Temp.	+20°C



Property	Specification
Physical Description	White crystalline powder
Identification (IR)	To conform to standard
Specific Optical Rotation ([α] <sub>D</sub> <sup>20</sup> )	-9.8 - -11.2 °
Chloride (Cl)	≤ 0.04%
Sulphate (SO <sub>4</sub> )	≤ 0.04%
Iron (Fe)	≤ 30ppm
Heavy Metals (as Pb)	≤ 15ppm
Lead (Pb)	≤ 3ppm
Arsenic (As)	≤ 1ppm
Mercury (Hg)	≤ 0.1ppm
Cadmium (Cd)	≤ 1ppm
Residue on Ignition	≤ 0.40%
Loss on Drying	≤ 0.30%
Assay	98.5 - 101.5 %
Pharmacopoeia Specification(s)	USP
Origin	Non-animal origin

Specification Version	-	v1.0
Date Created	-	2017-04-25

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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