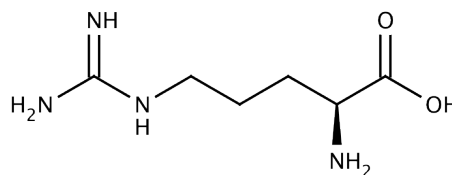


## Product Specification

Product Name : L-Arginine  
Glentham Code : GM7438  
CAS Number : 74-79-3  
EINECS : 200-811-1  
MDL Number : MFCD00002635  
PubChem SID : 310267012



Molecular Weight : 174.20  
Molecular Formula : C6H14N4O2  
Storage Temp. : +20°C

| Property                       | Specification   |
|--------------------------------|---|
| Physical Description           | White or almost white crystalline powder                  |
| Identification                 | According to EP, USP, AJI                                 |
| Solubility (5% in water)       | Clear, colourless solution                                |
| Specific Optical Rotation      | EP: 25.5 - 28.5 °, USP: 26.3 - 27.7 °, AJI: 26.9 - 27.9 ° |
| pH                             | 10.5 - 12.0   |
| Iron (Fe)                      | ≤ 10ppm   |
| Heavy Metals (as Pb)           | ≤ 10ppm   |
| Lead (Pb)                      | ≤ 3ppm  |
| Cadmium (Cd)                   | ≤ 1ppm  |
| Mercury (Hg)                   | ≤ 0.1ppm  |
| Arsenic (As2O3)                | ≤ 1ppm  |
| Ninhydrin-positive substances  | ≤ 0.5% (according to EP)                                  |
| Ammonium (NH4)                 | ≤ 0.02%   |
| Chloride (Cl)                  | ≤ 0.02%   |
| Sulphate (SO4)                 | ≤ 0.02%   |
| Residue on Ignition            | ≤ 0.1%  |
| Loss on Drying                 | ≤ 0.5%  |
| Other Amino Acids              | Not detected  |
| Assay                          | 99.0 - 101.0 % (dried basis)                              |
| Pharmacopoeia Specification(s) | EP, USP, AJI  |

Specification Version : v1.0  
Date Created : 2014-05-14

## Product Specification

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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