

## Product Datasheet

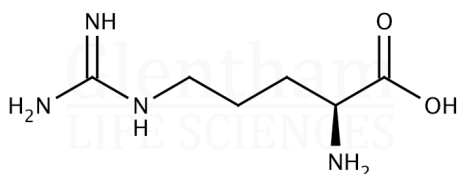
### GM7438 - L-Arginine

#### Product Details

Product Name	L-Arginine
Glenthams Code	GM7438
CAS Number	74-79-3
EINECS	200-811-1
MDL Number	MFCD00002635
PubChem SID	310267012
Related Categories	Amino Acids, Biochemicals, Reagents for Cell Culture, Cosmetic Raw Materials

#### Structure

Molecular Weight	: 174.20
Molecular Formula	: $C_6H_{14}N_4O_2$



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
Version	: v1.0

#### Storage

Recommended storage temperature: +20°C.

#### Hazards and Transport

Not classified as hazardous under CLP.  
Not classified as dangerous for transport.

#### Glenthams Product Specification

#### About L-Arginine

Arginine is an alpha-amino acid that is classified as semi-essential in humans. It is used in the biomanufacturing of recombinant proteins and monoclonal antibodies. It is an important constituent in cell culture media.

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