

## Product Datasheet

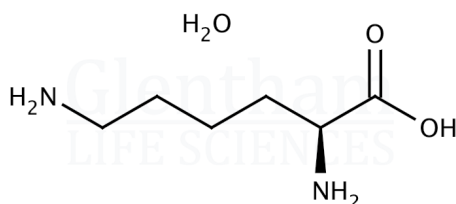
### GM1100 - L-Lysine monohydrate, 99%

#### Product Details

Product Name	L-Lysine monohydrate, 99%
Glentham Code	GM1100
CAS Number	39665-12-8
EINECS	200-294-2
MDL-Nummer	MFCD00151035
Related Categories	Amino Acids, Biochemicals, Raw Materials (IVD), Reagents for Cell Culture

#### Structure

Molecular Weight	: 164.21
Molecular Formula	: $C_6H_{14}N_2O_2 \cdot H_2O$



Physical Description	: White to light yellow crystalline powder
Identification	: IR
pH (2.5% in water)	: 9.0 - 10.5 (at 25°C)
Heavy Metals	: ≤ 10ppm
Residue on Ignition	: ≤ 0.1%
Other Amino Acids	: ≤ 0.5%
Specific Optical Rotation ([α] <sub>D</sub> <sup>20</sup> )	: +22 - +27 ° (c=8, 6M HCl)
Chloride (Cl)	: ≤ 0.03%
Sulphate (SO <sub>4</sub> )	: ≤ 0.02%
Ammonium (NH <sub>4</sub> )	: ≤ 0.02%
Iron (Fe)	: ≤ 10ppm
Water	: 10.0 - 11.5 %
Assay (Titration)	: 99.0 - 101.0 %
Version	: v1.0

#### About L-Lysine monohydrate, 99%

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

#### Storage

Recommended storage temperature: +20°C.

#### Hazards and Transport

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

#### Glentham Product Specification

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