

## Product Datasheet

### GM8797 - L-Cysteine, 99%, non-animal origin

Precautionary Codes

P280, P261, P301+P312

Pictograms

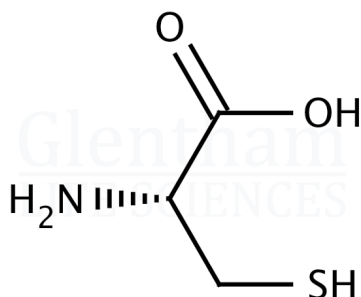


#### Product Details

Product Name	L-Cysteine, 99%, non-animal origin
Glenthams Code	GM8797
CAS Number	52-90-4
EINECS	200-158-2
MDL Number	MFCD00064306
Additional CAS	345909-32-2 ( $\cdot$ xH <sub>2</sub> O)
Related Categories	Amino Acids, Biochemicals, Reagents for Cell Culture

#### Structure

Molecular Weight	: 121.16
Molecular Formula	: C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S



#### Glenthams Product Specification

Physical Description	: White to almost white powder or crystals
Solubility (2.5% in water)	: Clear, colourless solution
Solubility (10% in 2M HCl)	: Clear, colourless solution
pH (2.5% in water)	: 4.5 - 5.5
Specific Optical Rotation ([α] <sub>20/D</sub> )	: +8.3 - +9.5 ° (c=8, 1M HCl)
Chloride (Cl)	: ≤ 0.05%
Sulphate (SO <sub>4</sub> )	: ≤ 0.03%
Ammonium (NH <sub>4</sub> )	: ≤ 0.02%
Iron (Fe)	: ≤ 10ppm
Heavy Metals (as Pb)	: ≤ 10ppm
Residue on Ignition	: ≤ 0.1%
Loss on Drying	: ≤ 0.5% (105°C, 3h)
Assay (Titration)	: 98.5 - 101.0 %
Origin	: Vegetal fermentation
Version	: v1.0

#### Storage

Recommended storage temperature: +20°C.

#### Hazards and Transport

Not classified as dangerous for transport.	
CLP Classification	Acute Tox. 4
Signal Word	Warning
Hazard Codes	H302

#### About L-Cysteine, 99%, non-animal origin

Cysteine is a nonessential amino acid. It contains a thiol group that participates in the formation of disulphide bonds that regulate the secondary and tertiary structure of proteins. It is also used to supplement cell culture media.

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