

## Product Datasheet

### GM3760 - L-Cysteine

Pictograms

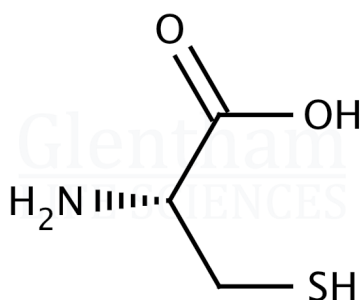


#### Product Details

|                    |   |
|--------------------|---|
| Product Name       | L-Cysteine  |
| Glenthams Code     | GM3760  |
| CAS Number         | 52-90-4   |
| EINECS             | 200-158-2   |
| MDL Number         | MFCD00064306  |
| Additional CAS     | 345909-32-2 ( $\cdot xH_2O$ )                           |
| PubChem SID        | 310270753   |
| Related Categories | Amino Acids, Biochemicals,<br>Reagents for Cell Culture |

#### Structure

|                   |                 |
|-------------------|-----------------|
| Molecular Weight  | : 121.16        |
| Molecular Formula | : $C_3H_7NO_2S$ |



#### Glenthams Product Specification

|   |  |
|---|--|
| Physical Description                            | : White to almost white powder or crystals |
| Solubility (2.5% in water)                      | : Clear, colourless solution               |
| pH (2.5% in water)                              | : 4.0 - 6.0                                |
| Specific Optical Rotation ( $[\alpha]_{20/D}$ ) | : +8.0 - +9.5 ° (c=8, 1M HCl)              |
| Loss on Drying                                  | : $\leq 1.0\%$ (80°C, vac., 1h)            |
| Assay (Titration)                               | : $\geq 98.0\%$                            |
| Version   | : v1.2                                     |

#### About L-Cysteine

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.

#### 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                  |
| Precautionary Codes                        | P280, P261, P301+P312 |

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