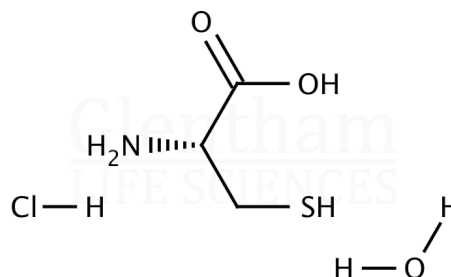


## Product Specification

Product Name	L-Cysteine hydrochloride monohydrate, 99%, non-animal origin
Glentham Code	GM0119
CAS Number	7048-04-6
EINECS	200-157-7
MDL Number	MFCD00065606
Additional CAS	345909-32-2 (-xH <sub>2</sub> O)

Molecular Weight	175.64
Molecular Formula	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S · HCl · H <sub>2</sub> O
Storage Temp.	+20°C



Property	Specification
Physical Description	White or colourless crystals
Identification (IR)	To conform to standard
Solubility (2.5% in water)	Clear, colourless solution
Specific Optical Rotation ([α] <sub>D</sub> <sup>20</sup> )	5.5 - 7.0 ° (c=8, HCl, dried basis)
pH	1.5 - 2.0
Sulphates	≤ 0.02%
Ammonium	≤ 0.02%
Heavy Metals	≤ 10ppm
Any Individual Impurity	≤ 0.5%
Total Impurities	≤ 2.0%
Residue on Ignition	≤ 0.1%
Loss on Drying	8.0 - 12.0 %
Assay (Titration)	98.5 - 101.0 %
Pharmacopoeia Specification(s)	Ph. Eur., USP

Specification Version	-	v1.0
Date Created	-	2021-09-13

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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