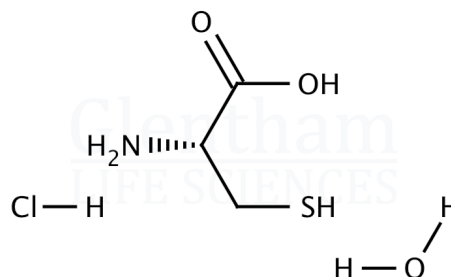


## Product Specification

Product Name	L-Cysteine hydrochloride monohydrate, Ph. Eur., USP grade
Glentham Code	GM2919
CAS Number	7048-04-6
EINECS	200-157-7
MDL Number	MFCD00065606
Additional CAS	345909-32-2 ( $\cdot xH_2O$ )
Molecular Weight	175.64
Molecular Formula	$C_3H_7NO_2S \cdot HCl \cdot H_2O$
Storage Temp.	+20°C



Property	Specification
Physical Description	White or almost white crystalline powder, or colourless crystals
Identification	IR
Identification	Reaction of chlorides
Solubility (5% in water)	Clear, colourless solution ( $\leq$ BY6)
Specific Optical Rotation	Ph. Eur.: + 5.5 - +7.0 °, USP: + 5.7 - +6.8 °
Any Individual Impurity (TLC)	$\leq$ 0.5%
Total Impurities (TLC)	$\leq$ 2.0%
Sulphates	$\leq$ 300ppm
Ammonium (NH4)	$\leq$ 200ppm
Iron (Fe)	$\leq$ 20ppm
Heavy Metals (as Pb)	$\leq$ 10ppm
Sulphated Ash	$\leq$ 0.1%
Loss on Drying	8.0 - 12.0 %
Assay	98.5 - 101.0 % (dried substance)
Pharmacopoeia Specification(s)	Ph. Eur., USP

Specification Version	-	v1.1
Date Created	-	2023-05-05

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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