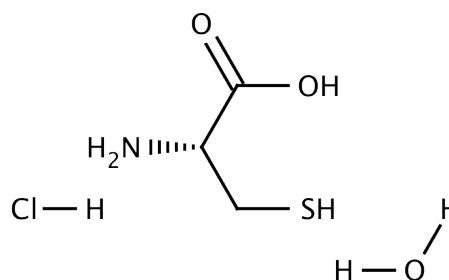


Product Specification

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	To conform to Ph. Eur., USP tests
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 (NH ₄)	\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 : v1.0
Date Created : 2018-05-02

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 or contact us using the details above for the current version of this document.

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