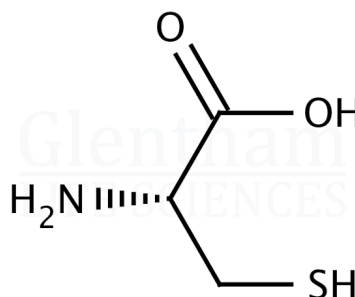


Product Specification

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 ($\cdot xH_2O$)
Molecular Weight	121.16
Molecular Formula	$C_3H_7NO_2S$
Storage Temp.	+20°C



Property	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 ($[\alpha]_{20/D}$)	+8.3 - +9.5 ° (c=8, 1M HCl)
Chloride (Cl)	$\leq 0.05\%$
Sulphate (SO ₄)	$\leq 0.03\%$
Ammonium (NH ₄)	$\leq 0.02\%$
Iron (Fe)	$\leq 10\text{ppm}$
Heavy Metals (as Pb)	$\leq 10\text{ppm}$
Residue on Ignition	$\leq 0.1\%$
Loss on Drying	$\leq 0.5\%$ (105°C, 3h)
Assay (Titration)	98.5 - 101.0 %
Origin	Vegetal fermentation

Specification Version	-	v1.0
Date Created	-	2021-04-15

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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