

Product Specification

Product Name: L-Cysteine HCl monohydrate

2-Amino-3-sulfhydrylpropanoic acid

Item Nr.: 1622 MW: 175.63 g/mol C₃H₇NO₂S*HCl*H₂O

CAS Nr.: 7048-04-6 E.C.Nr.: EINECS: 615-117-8

Parameter	Method	Specification	Unit
Appearance	visual	White to off white crystalline powder	
Solubility	5% in H ₂ O	soluble	
Clarity of solution	Nephelometry	0	NTU
Coloration of sol.	Gardner	1	
Assay	Titration	98.5 - 101.0	%
Loss on drying		8.0 - 12.0	%
pH	5% in H ₂ O	1.0 - 2.0	
Optical rotation	[α] _{20D}	+ 5.5 - + 7.0	°
Ninhydrin-positive substances	TLC	not detectable	
Heavy metals (as Pb)		≤10	ppm
Iron (Fe)		<20	ppm
Sulfated ash		<0.1	%
Ammonium (NH ₄)		< 200	ppm
Sulfates (SO ₄)		< 300	ppm
A260	2% in H ₂ O	< 0.20	

Storage: Keep well closed at room temperature in a dark and dry place. Avoid contact with metal.
Long storage at + 4 C°. Aqueous solutions are oxidized to cystine

For professional use only. Not intended for pharmaceutical use. We do not warrant suitability for any particular application. Consult Safety Data Sheet.

Version/Latest update: 02/20.03.2019