


Specification

**L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade**

**A1702**

<b>Solubility:</b>	650 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1702
<b>Product Name:</b>	L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade
<b>Headline Comment:</b>	• All amino acids from AppliChem are of non-animal origin!
<b>Specifications:</b>	<p>Assay (titr., calc. on dried subst.): 98.5 - 101.0 %</p> <p><math>\alpha</math>25°C/D; 8 %, 6 M HCl: +5.7° - +6.8°</p> <p>Appearance of solution: passes test</p> <p>Identity: passes test</p> <p>Heavy metals (as Pb): max. 0.0015 %</p> <p>Sulfated ash: max. 0.1 %</p> <p>Loss on drying: 8 - 12 %</p> <p><math>\alpha</math>20°C/D; 8 %, HCl 250 g/L, calc. on dried subst.: +5.5° - +7.0°</p> <p>Ninhydrin positive substances (TLC): max. 0.5 %</p> <p>Ammonium: max. 0.02 %</p> <p>Sulfate: max. 0.03 %</p> <p>Fe: max. 0.002 %</p> <p>Ninhydrin positive substances (TLC)</p> <p>Each individual impurity: max. 0.5 %</p> <p>Total impurities: max. 2 %</p>
<b>Hazard pictograms</b>	
<b>WGK:</b>	1
<b>Storage:</b>	RT

**AppliChem GmbH**

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<b>Signal Word:</b>	Attention
<b>GHS Symbols:</b>	GHS07
<b>H Phrases:</b>	H319
<b>P Phrases:</b>	P264 P280 P305+P351+P338 P337+P313 P501
<b>Molecular Formula:</b>	$C_3H_7NO_2S \cdot HCl \cdot H_2O$
<b>M:</b>	175.64 g/mol
<b>CAS:</b>	7048-04-6
<b>EINECS:</b>	200-157-7
<b>CS:</b>	29309016

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