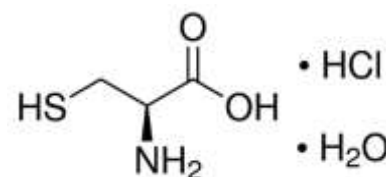


## L-CYSTEINE HYDROCHLORIDE AR (MONOHYDRATE) FOR BIOCHEMISTRY

PRODUCT CODE	501715
SYNONYMS	--
C.I. NO.	--
CASR NO.	(7048-04-6)
ATOMIC OR MOLECULAR FORMULA	$C_3H_7NO_2S \cdot HCl \cdot H_2O$
ATOMIC OR MOLECULAR WEIGHT	175.63
PROPERTIES	—



PARAMETER	LIMIT
Description	White to almost white crystals or crystalline powder or colorless crystals.
Solubility	10% Solution in water is clear and colourless.
Appearance of solution	Passes test.
Identification	Passes test.
Assay (Iodometric; calc to the dried sub.)	99.5 – 101.0%
Specific Rotation [ $\alpha$ ] <sub>D</sub> <sup>20</sup> (C=8, in 25%w/v of HCl, calc with reference to the dried subs.)	+ 5.5° to + 7.0°
State of solution (10% solution 430 nm; Transmittance)	Not less than 95.0%
pH of 1% solution in water	1.50 -2.00

### MAXIMUM LIMIT OF IMPURITIES

Residue on ignition (Sulphated)	0.1%
Loss on drying	8.0 – 12.0%
Ammonium (NH <sub>4</sub> )	0.02%
Chloride (Cl)	19.89 to 20.29%
Sulphate (SO <sub>4</sub> )	0.03%
Iron (Fe)	0.002%
Heavy metals (Pb)	0.001%
Ninhydrin positive standard	Passes test.

**Note(s) : Assay (if applicable) method mentioned.**

<b>WARNING</b> <b>Hazard statements:</b> Not hazardous. No hazards. <b>Precautionary statements</b> <b>Prevention:</b> ---- <b>Response:</b>	IMDG Code : UN No. : IATA :
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**Disposal:** .....

**Hazard Pictogram(s) :--**

Replace date 16-Jan-2026