



Product Specification

L-ASCORBIC ACID AR/ACS FOR BIOCHEMISTRY Meets Analytical Specification of IP, BP, USP, Ph. Eur.

PRODUCT CODE	459995
SYNONYMS	vitamin C
C.I. NO.	—
CASR NO.	50-81-7
ATOMIC OR MOLECULAR FORMULA	C₆H₈O₆
ATOMIC OR MOLECULAR WEIGHT	176.13
PROPERTIES	Light sensitive.



PARAMETER	LIMIT
Description	Colourless or white to pale yellow crystalline powder.
Solubility	10% solution in water is clear and almost colourless.
Identification	Passes tests.
Minimum Assay (Iodometric)	99.7%
pH of (5% soln.in water)	2.2 – 2.5
Melting point	190 – 192°C
Specific rotation (a) $\frac{20}{D}$ (C=10% in water)	+ 20.5° to + 21.5°
Absorbance (of 0.001% w/v soln.in 0.01M HCl at λ max.244 nm)	About 0.56

MAXIMUM LIMIT OF IMPURITIES

Loss on drying (at 110°C)	0.1%
Sulphated ash	0.05%
Water insoluble matter	0.003%
Chloride (Cl)	0.005%
Sulphate (SO ₄)	0.002%
Copper (Cu)	0.0005%
Iron (Fe)	0.0002%
Heavy Metals (Pb)	0.001%
Org. volatile impurities	Meets the requirement.
Oxalic acid	0.2%
Related substance	Passes test

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

2) Protected from light



Central Drug House (P) Ltd.

AN ISO 9001:2008 CERTIFIED COMPANY

Manufacturers of : Laboratory Fine Chemicals & Dehydrated Culture Media

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WARNING Hazard statements : May be harmful if swallowed. Precautionary statements Prevention: ----- Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	IMDG Code : UN No. : IATA :
Disposal: Disposal: Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water.	
Hazard Pictogram(s) :-	