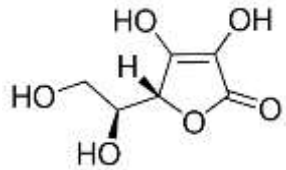


L-ASCORBIC ACID AR/ACS FOR BIOCHEMISTRY

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%	
Melting Point (Decomposition)	190 - 192°C	
pH of (5% <u>soln.in</u> water)	2.2 – 2.5	
Specific rotation (a) $\frac{20}{D}$ (C=10% in water)	+ 20.5° to + 21.5°	
Absorbance (of 0.001% w/v <u>soln.in</u> 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	0.1%	
Water insoluble matter	0.003%	
Chloride (Cl)	0.005%	
Sulphate (SO ₄)	0.002%	
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		
WARNING		IMDG Code :
Hazard statements: May be harmful if swallowed.		UN No. :
Precautionary statements		IATA :
Prevention: -----		
Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
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) :-		

Replace Date-17-Nov-2025