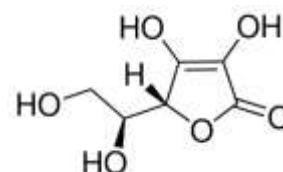


L-ASCORBIC ACID AR/ACS FOR BIOCHEMISTRY

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 |
| Specific rotation (a) $\frac{20}{D}$ (C=10% in water) | + 20.5° to + 21.5° |

| 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

| | |
|---|-------------|
| 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-11-Mar-2023