

Vitamin C (Ascorbic Acid)

Water-soluble vitamin – plain and coated grades

Product Description

Pharmaceutical/Nutraceutical-grade Ascorbic Acid (Vitamin C) available as plain powder and coated granules for tablets, capsules and effervescent formulations. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2936.27

CAS Number: 50-81-7

Classification: Pharmaceutical API / Nutraceutical

Parameter	Specification	Test Method
Appearance	White to light yellow crystalline powder	Visual
Assay	99.0–100.5%	Titration (iodometric)
Identification	Conforms to reference standard	IR
Melting Point	190–192°C (decomp.)	USP <741>
pH (2% aqueous)	2.1–2.6	USP <791>
Loss on Drying	"d 0 . 4 %	USP <731>
Optical Rotation	+20.5° to +21.5°	USP <781>
Heavy Metals	"d 2 0 p p m	USP <231>

Physical Properties

Appearance: White to light yellow crystalline powder

Molecular Formula: $C_6H_8O_6$

Molecular Weight: 176.12 g/mol

Solubility: Freely soluble in water; slightly soluble in ethanol; practically insoluble in ether

Melting Point: 190–192°C (decomp.)

Packing: 25 kg HDPE drums with inner polyethylene liner; 1 kg, 5 kg aluminium foil pouches

Storage: Store in a cool, dry, well-ventilated area away from light and moisture. Below 25°C. Protect from oxidation.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Acidic — irritating to eyes and skin at high concentrations
- Avoid dust inhalation