



SPECIFICATION SHEET

Ascorbic Acid Powder

CAS# 50-81-7

USP, BP

Molecular Weight: 176.13

Molecular Formula: C₆H₈O₆

CHARACTERISTICS

Appearance	White or almost white crystalline powder
Solubility	Freely soluble in water; sparingly soluble in alcohol, insoluble in chloroform, ether, and benzene
Stability	Most stable in a dry state. Gradually darkens upon exposure to light, moisture, and heat. Rapidly oxidizes in solution. Avoid contact with iron, copper or nickel salts.

SPECIFICATIONS

Carrier/Other Ingredients	N/A	Heavy Metals	≤ 10 Parts per million
Particle Size	40 ~ 60 Mesh	Iron	≤ 2 Parts per million
Assay	99.0% ~ 100.5%	Zinc	≤ 25 Parts per million
Odor	Odorless, or almost odorless	Arsenic	≤ 3 Parts per million
Color of Solution	≤ BY7, Clear solution	Cadmium	≤ 1 Part per million
Identification	Positive	Copper Salt	≤ 5 Parts per million
pH (5% Water Solution)	2.1 ~ 2.6	Lead	≤ 2 Parts per million
Melting Point	190°C ~ 192°C	Mercury	≤ 0.1 Part per million
Specific Rotation	+20.5° ~ +21.5°	Ferrite	≤ 2 Parts per million
Loss on Drying	≤ 0.4%	Oxalate	≤ 0.2%
Residue on Ignition	≤ 0.1%		
Residual Solvents		MICROBIOLOGY SPECIFICATIONS	
Ethanol	≤ 3000 Parts per million	Total Plate Count	≤ 1000 cfu/g
Methanol	≤ 3000 Parts per million	Yeast & Mold	≤ 100 cfu/g
Related Substances		Coliforms	≤ 10 cfu/g
Impurity C	≤ 0.15%	E. Coli	Negative
Impurity D	≤ 0.15%	Salmonella	Negative
Unspecified Impurity	≤ 0.10%	Staph. Aureus	Negative
Total Impurity	≤ 0.15%		

Note	Must handle in accordance with the Material Safety Data Sheet
Applications	Suitable for use in food, beverage, nutritional supplement, skincare, and cosmetics