



Tech

Technical Data

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## Ascorbic Acid FCC/USP

### GENERAL DESCRIPTION:

Appears as a white or slightly yellow crystal/powder that gradually darkens with exposure to light. Ascorbic acid is relatively stable in air when dry, but rapidly deteriorates in solution when in the presence of air.

### APPLICATIONS:

- ◆ Food: serves as an antioxidant in food additives
- ◆ Photography: reductant in helping developing solutions & as a preservative
- ◆ Metal: removes stains commonly found on swimming pools
- ◆ Plastic: various uses

### HANDLING & STORAGE

**Handling:** Avoid dust inhalation, and skin and eye contact. Wear protective gloves and clothing. Keep away from heat and ignition sources.

**Storage** Store in tightly closed container in cool, well-ventilated area, away from heat, light, ignition sources and Incompatibles. Periodically inspect stored materials.

### PHYSICAL PROPERTIES:

- ◆ Appearance: White or yellow crystals
- ◆ Odor: None
- ◆ pH (5 mg/mL solution): 3
- ◆ Solubility: 80% at 212°F

<u>ITEM</u>	<u>STANDARD</u>
Description	White crystals or crystalline powder
Identification (A & B)	Positive, passes tests
Melting Point	Approx. 190°C
pH	2.1- 2.6 (in 5% solution)
Clarity of Solution	Pass
Color of Solution	≤ BY <sub>7</sub>
Copper Salt	≤ 5 ppm
Heavy metals	≤ 3 ppm
Arsenic	≤ 1 ppm
Lead	≤ 5 ppm
Hg	≤ 1 ppm
Ferrite	≤ 2 ppm
Oxalate	≤ 2 %
Residue on Ignition	Not more than 0.1%
Specific Rotation @ 25°C	Between +20.5° and +21.5°
Assay (C <sub>6</sub> H <sub>8</sub> O <sub>6</sub> )	99.0% - 100.5%
Loss on Drying	≤ 0.4 %
Organic Volatile Impurities	Pass

\*\*\*[For more detail about product handling & safety info, please refer to the Material Safety Data Sheet](#)\*\*\*