



TAKEDA VITAMIN & FOOD USA, INC.

PRODUCT DATA

ASCORBIC ACID USP/FCC

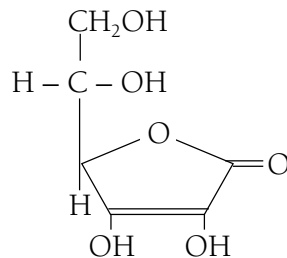
(Vitamin C / L-Ascorbic Acid / Antiscorbutic Vitamin)

Fine Granular
Micro Powder
80 Mesh
Regular Powder

DESCRIPTION

Takeda Ascorbic Acid meets all requirements of the United States Pharmacopeia (USP) and Food Chemicals Codex (FCC). It is certified Kosher for year-round use by the Union of Orthodox Jewish Congregations of America. Ascorbic Acid is generally recognized as safe (GRAS) as a nutrient and as a preservative (antioxidant).

CHEMICAL AND PHYSICAL PROPERTIES



$C_6H_8O_6$ Molecular Weight: 176.13

Ascorbic acid is freely soluble in water; sparingly soluble in alcohol; insoluble in chloroform, ether, and benzene. It melts at about 190°C. It is reasonably stable in the dry state. On exposure to light it gradually darkens, and it rapidly oxidizes in solution. Contact with iron, copper or nickel salts should be avoided.

SPECIFICATIONS

Appearance:	White to almost white crystals or crystalline powder
Identification:	Positive
Heavy metals:	Not more than 10 parts per million
Residue on ignition:	Not more than 0.1 percent
Specific rotation $[\alpha]_D^{25}$:	Between +20.5° and +21.5°
Content:	Not less than 99.0 percent and not more than 100.5 percent of $C_6H_8O_6$
Organic volatile impurities:	Meets USP requirements

Particle size:	Fine Granular:	Minimum 95 percent passes through U.S. No. 30 Maximum 10 percent passes through U.S. No. 100
	80 Mesh:	Minimum 90 percent passes through U.S. No. 80
	Regular Powder:	Minimum 90 percent passes through U.S. No. 100
	Micro Powder:	Minimum 85 percent passes through U.S. No. 325

PACKING AND STORAGE

All mesh sizes and grades:
Fine Granular and 80 Mesh
also available in:

Fiber drum: 50 kg net weight. Tamper evident.

Carton pack: 25 kg net weight. Rectangular carton containing poly-lined, aluminized bag.
Store in tight, light-resistant containers in a cool, dry place.

DELIVERY

Prompt shipment from our warehouses located in key areas of the United States.

TECHNICAL SERVICE

Takeda's technical service team is ready to assist you in the use of our vitamins, flavor enhancers, and other ingredients at all stages of product development.

FOR FURTHER INFORMATION, SAMPLES, AND LITERATURE

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