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## Specification Sheet

### ASCORBIC ACID (VITAMIN C) USP

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
AAUAUP	1439	50-81-7	May 24, 2010	LR	No. 1	TJK

<b>CHARACTERISTICS:</b>	<p>White crystalline powder with sharp acidic taste. Melting point is 190 to 192° C with some decomposition. Stable to air when dry, but rapidly oxidized by air in aqueous solutions, which is further accelerated in the presence of alkalis, iron, or copper. Strong reducing agent.</p> <p>One gram dissolves in 3 ml water, 30 ml alcohol, 50 ml absolute alcohol, 100 ml glycerol USP, or 20 ml propylene glycol. Water solubility is 80% at 100° C or 40% at 45° C. Insoluble in ether, chloroform, oils, fats, and fat solvents. One international unit (IU) is equivalent to 0.05 mg of L-ascorbic acid. Approximately 95% through an 80 mesh screen.</p>
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<b>SPECIFICATIONS:</b>	Assay	99.0-100.5%
	Identification	
	A	To pass test
	B	To pass test
	Clarity of solution	Clear
	Color of solution	Not more than BY7
	Copper	Not more than 5 ppm
	Iron	Not more than 2 ppm
	Oxalic acid	Nor More than 0.2%
	Specific optical rotation	+20.5° to +21.5°
	Residue on ignition	Not more than 0.1%
	Heavy metals	Not more than 10 ppm
	Organic volatile impurities	Meets requirements

<b>STOCKING POINTS:</b>	Metuchen, NJ
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<b>PACKAGING:</b>	25 kg carton; 40 cartons per pallets
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<b>APPLICATIONS:</b>	Nutritional food and vitamin supplements as Vitamin C source. Antimicrobial and antioxidant in food products. Manufacture of ascorbate salts.
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<b>SPECIAL STORAGE INSTRUCTIONS:</b>	Store in tight, light-resistant containers or packaging. 2 year shelf life.
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