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Specification of Ascorbic Acid

Items	Standard
Appearance	White crystalline powder
Identification	Positive
Clarity of solution	Clear
Color of solution	$\leq BY_7$
Assay	99.0~100.0%
Loss on Drying	$\leq 0.4\%$
Residue on ignition	$\leq 0.1\%$
Sulphate Ash	$\leq 0.1\%$
Specific rotation	$+20.5^\circ \sim +21.5^\circ$
pH(with 2% water solution)	2.4-2.8
pH(with 5% water solution)	2.1-2.6
Melting range	About 190 \square
Heavy metals	$\leq 3\text{ppm}$
Iron	$\leq 2\text{ppm}$
Copper	$\leq 5\text{ppm}$
Oxalic acid	$\leq 0.2\%$
Arsenic	$\leq 1\text{ppm}$
Lead	$\leq 3\text{ppm}$
Cadmium	$\leq 1\text{ppm}$
Mercury	$\leq 1\text{ppm}$
Organic volatile impurities	Meets the requirements
Related Substances	ImpurityC $\leq 0.15\%$ ImpurityD $\leq 0.15\%$ Any Other Unspecific Impurities Impurity $\leq 0.10\%$ Total Impurity $\leq 0.2\%$
Total Plate Count	$\leq 1,000\text{cfu/g}$