Aktin Chemicals, Inc.
No.88 Keyuan South Road, High-tech Zone, Chengdu
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SPECIFICATION SHEET

File No.:JT-TDS-CP0092 Version:00 Effective date:2026.09.01

Product Name	AKCOS® 3-O-Ethyl Ascorbic Acid
CAS No.	86404-04-8
Molecular Formula	$C_8H_{12}O_6$
Molecular Weight	204.18
Product Specification	98.0%
Country of Origin	China

QUALITY SPECIFICATIONS

ITEMS	SPECIFICATIONS	METHODS
Appearance	White crystalline powder	Visual
Identification	In the chromatogram recorded under the content determination item, the retention time of the main peak of the test solution should be consistent with that of the reference solution	HPLC
Melting point	111.0℃~116.0℃	USP<741>
pH	3.5~5.5	USP<791>
Loss on drying	≤2.0%	USP<731>
Sulfated Ash(600℃)	≤0.2%	USP<281>
Purity	≤98.0%	HPLC
Residual VC	＜10mg/kg	HPLC
Assay		
3-O-Ethyl Ascorbic Acid	NLT 98.0 %	HPLC
Residues		
Solvent Residues	USP<467>	GC
Benzoapyrene	<10ppb	HPLC
Sum of PAHS	<50ppb	HPLC
Heavy metals		
Heavy Metals	≤20ppm	ICP-MS
Lead	≤2ppm	ICP-MS

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ITEMS	SPECIFICATIONS	METHODS
Arsenic	≤1ppm	ICP-MS
Mercury	≤0.1ppm	ICP-MS
Cadmium	≤1ppm	ICP-MS
Microbiological		
Total Plate Count	<1000cfu/g	USP <2021>
Yeast& Mold	<100cfu/g	USP <2021>
E.Coli	Negative	USP <2022>
Salmonella	Negative	USP <2022>
Staphylococcus	Negative	USP <2022>
Statement: Non-Irradiated, Non-BSE/TSE, Non-GMO, Non-Allergen		

STORAGE, STABILITY & PACKAGING

Storage	Store in a cool & dry place, keep away from strong light and heat.
Stability	24 months when properly stored.
Packaging	25kg/drum or as requested.