



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

## SPECIFICATION SHEET

### ZINC CITRATE TRIHYDRATE

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
ZCTGIP	2998	546-46-3	September 14, 2011	JGP	No. 1	MPR

<b>CHARACTERISTICS:</b>	Odorless white granular-powder in the trihydrate form. Insoluble in water. Soluble in diluted hydrochloric acid. Also known as 1,2,3-Propanetricarboxylic acid, hydroxyl-, zinc salt (2:3) Molecular formula: $C_{12}H_{10}O_{14}Zn_3 \cdot 3H_2O$ Molecular weight: 577.3
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<b>SPECIFICATIONS:</b>	Assay (zinc content)	29.6-32.8%
	Identification	
	A. Zinc	To pass test
	B. Citrate	To pass test
	Loss on drying (at 105°C for 4 hours)	5.0% max
	Sulfate	400 ppm max
	Chloride	400 ppm max
	Lead	5 ppm max
	Cadmium	5 ppm max
	Arsenic	3 ppm max
	pH (3% suspension)	5.7-7.0
	Volatile matters	1% max
	Sieve analysis	
	Thru 100 mesh	50.0% min
	Thru 60 mesh	95.0% min
	Total aerobic count	1000 cfu/ g max
Total molds and yeasts	100 cfu/ g max	
Escherichia coli	Negative	
Salmonella	Negative	

<b>STOCKING POINTS:</b>	Consult office
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<b>PACKAGING:</b>	Various packaging combinations are available depending upon customer requirements. Standard packaging is 25 kg fiber drums with inner HMHDPE liners. Standard pallet configuration is 15 drums per pallet as 3 layers of 5 drums per layer, with option to increase layers to 20 or 25 drums per pallet.
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<b>APPLICATIONS:</b>	Nutritional food supplements, additive in toothpastes and mouthwashes, zinc source in vitamins and cold lozenges.
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<b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b>	Material should be re-tested against the certificate of analysis 3 years from date of manufacture and stored in well closed containers in dry location at ambient room temperature (~ 20°C).
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<b>OTHER:</b>	The manufacturing site is WHO cGMP and ISO 9000-2004, ISO 14000-2006 certified. The manufacturer has achieved a COS issued by the EDQM. It is certified by NQA to the requirement of HACCP under the Codex Alimentarius. The product is Halal certified.
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