



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-210997
Lot Number: SAMPLE
Product Name: Cadmium chloride hemi(pentahydrate)
CAS Number: 7790-78-5
Molecular Formula: $\text{CdCl}_2 \cdot 2.5\text{H}_2\text{O}$
Molecular Weight: 228.36

Test	Specification	Result
Appearance	White powder or chunks	White powder with chunk(s)
Identification (ICP)	Consistent with cadmium component	Complies
Identification (X-Ray Diffraction)		Complies
Purity (Silver Nitrate Titration)	79.5 - 81.0% (as CdCl_2)	79.5%
Impurity	Nitrate and Nitrite: $\leq 0.003\%$	$< 0.003\%$
Insoluble Matter	$\leq 0.005\%$	0.003%
Ammonium	$\leq 0.005\%$	$< 0.005\%$
Calcium	$\leq 0.005\%$	$< 0.005\%$
Copper	≤ 5.0 ppm	< 1.0 ppm
Iron	≤ 5.0 ppm	1.4 ppm
Lead	$\leq 0.005\%$	$< 0.005\%$
Potassium	$\leq 0.02\%$	$< 0.02\%$
Sodium	$\leq 0.05\%$	$< 0.05\%$
Sulfate	$\leq 0.005\%$	$< 0.005\%$
Zinc	$\leq 0.05\%$	$< 0.05\%$

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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