



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-251047
Lot Number: SAMPLE
Product Name: Sodium pyrophosphate dibasic
CAS Number: 7758-16-9
Molecular Formula: $\text{H}_2\text{P}_2\text{O}_7 \cdot 2\text{Na}$
Molecular Weight: 221.94

Test	Specification	Result
Appearance	Colorless or white powder	White powder
Purity (Sodium Hydroxide Titration)	99.0 - 101.0%	99.5%
pH	3.5 - 4.5	4.0
Residue	No residue (filter test)	Complies
Solubility	Clear colorless at 0.1 M in H_2O	Complies
Trace metal analysis	Consistent with requirements	Complies
A260	≤ 0.1	0.1
A280	≤ 0.09	0.09
Aluminum	$\leq 5 \text{ mg/kg (ICP)}$	$< 5 \text{ mg/kg (ICP)}$
Arsenic	Arsenic traces (MHS-AAS) $\leq 0.2 \text{ mg/kg}$	$< 0.1 \text{ mg/kg}$
Barium	$\leq 5 \text{ mg/kg (ICP)}$	$< 5 \text{ mg/kg (ICP)}$
Bismuth	$\leq 5 \text{ mg/kg (ICP)}$	$< 5 \text{ mg/kg (ICP)}$
Cadmium	$\leq 5 \text{ mg/kg (ICP)}$	$< 5 \text{ mg/kg (ICP)}$
Calcium (ICP)	$\leq 50 \text{ mg/kg}$	$< 50 \text{ mg/kg}$
Chloride	$\leq 50 \text{ mg/kg}$	$< 50 \text{ mg/kg}$
Chromium	$\leq 5 \text{ mg/kg (ICP)}$	$< 5 \text{ mg/kg (ICP)}$
Cobalt	$\leq 5 \text{ mg/kg (ICP)}$	$< 5 \text{ mg/kg (ICP)}$
Copper	$\leq 5 \text{ mg/kg (ICP)}$	$< 5 \text{ mg/kg (ICP)}$
Iron (ICP)	$\leq 10 \text{ mg/kg}$	$< 10 \text{ mg/kg}$

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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Lead (ICP)	≤ 5 mg/kg	< 5 mg/kg
Lithium	≤ 5 mg/kg (ICP)	< 5 mg/kg (ICP)
Magnesium	≤ 5 mg/kg (ICP)	< 5 mg/kg (ICP)
Manganese	≤ 5 mg/kg (ICP)	< 5 mg/kg (ICP)
Molybdenum	≤ 5 mg/kg (ICP)	< 5 mg/kg (ICP)
Nickel	≤ 5 mg/kg (ICP)	< 5 mg/kg (ICP)
Potassium (ICP)	≤ 300 mg/kg	< 300 mg/kg
Strontium	≤ 5 mg/kg (ICP)	< 5 mg/kg (ICP)
Water Content	≤ 0.5%	0.11%
Zinc	≤ 5 mg/kg (ICP)	< 5 mg/kg (ICP)

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