



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-291895
Lot Number: SAMPLE
Product Name: Ammonium formate solution
CAS Number: 540-69-2
Molecular Formula: $\text{CHO}_2 \cdot \text{NH}_4$
Molecular Weight: 63.06

Test	Specification	Result
Appearance	Colorless liquid	Complies
Purity (Titration)	9.8 - 10.2 mol/l	9.9 mol/l
pH	6.0 - 8.0	7.3
Residue	No residue (filter test)	Complies
Specific Gravity	D20/4: 1.109 - 1.149	1.129
Trace metal analysis	Corresponds to requirements	Complies
A260	≤ 0.05	0.03
A280	≤ 0.04	0.02
Aluminum	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Arsenic	Arsenic traces (MHS-AAS): $\leq 0.1 \text{ mg/kg}$	$< 0.1 \text{ mg/kg}$
Barium	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Bismuth	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Cadmium	$\leq 1 \text{ MG/KG (ICP)}$	$< 1 \text{ MG/KG}$
Calcium (ICP)	$\leq 5 \text{ mg/kg}$	$< 5 \text{ mg/kg}$
Chloride	$\leq 50 \text{ mg/kg}$	$< 50 \text{ mg/kg}$
Chromium	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Cobalt	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Copper	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Iron (ICP)	$\leq 1 \text{ mg/kg}$	$< 1 \text{ mg/kg}$

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)	$\leq 1 \text{ mg/kg}$	$< 1 \text{ mg/kg}$
Lithium	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Magnesium	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Manganese	$\leq 1 \text{ mg/kg}$	$< 1 \text{ mg/kg}$
Molybdenum	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Nickel	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Potassium (ICP)	$\leq 20 \text{ mg/kg}$	$< 20 \text{ mg/kg}$
Sodium (ICP)	$\leq 20 \text{ mg/kg}$	$< 20 \text{ mg/kg}$
Strontium	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$
Sulfur	Total sulfur as $\text{SO}_4(\text{ICP})$: $\leq 50 \text{ mg/kg}$	$< 50 \text{ mg/kg}$
Zinc	$\leq 1 \text{ mg/kg(ICP)}$	$< 1 \text{ mg/kg}$

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