

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-04-10 10:15:55

Date of Next Testing: 2029-04-09 10:15:55

Product Name: **Imidazole**

CAS Number: 288-32-4

Specifications & Purity: for fluorescence analysis, ≥99.5%

Lot #: F2123021

SKU #: **I108705**

Version: **0**

Analysis #: **493279**

Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Nickel(Ni)	0-5 (ppm)	2.59600 ppm
Potassium(K)	0-50 (ppm)	33.49700 ppm
Iron(Fe)	0-5 (ppm)	1.95300 ppm
Zinc(Zn)	0-5 (ppm)	2.35700 ppm
Purity(GC)	99.5-100 (%)	99.52300 %
Calcium(Ca)	0-10 (ppm)	4.64700 ppm
Chloride (Cl-)	0-50 (ppm)	11.29600 ppm
Sodium(Na)	0-50 (ppm)	45.56000 ppm
Cadmium(Cd)	0-5 (ppm)	1.20780 ppm
pH	9.5-11	10.27800
Ignition Residue (as sulfate)	0-0.05 (%)	0.05000 %
Chromium(Cr)	0-5 (ppm)	2.49600 ppm
Strontium(Sr)	0-5 (ppm)	1.89500 ppm
UV Absorbance 280nm	0-0.1	0.00000
Copper(Cu)	0-5 (ppm)	1.30000 ppm
UV Absorbance 260nm	0-0.1	0.00000
Molybdenum(Mo)	0-5 (ppm)	2.19600 ppm
Melting point	86-92 (°C)	91.80800 °C
Magnesium(Mg)	0-5 (ppm)	0.64700 ppm
Lithium(Li)	0-5 (ppm)	2.19600 ppm
Manganese(Mn)	0-5	4.20800
(Pb)Lead	0-5 (ppm)	3.31700 ppm
Cobalt(Co)	0-5 (ppm)	2.35700 ppm
Water by Karl Fischer	0-0.2 (%)	0.11700 %
Sulfate(SO42-)	0-50 (ppm)	15.35700 ppm

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Parameter	Limit Values	Result
Appearance (I108705)	White to Off-White Powder	White to Off-White Powder
Fluorescence, λ_{ex} 200-600 nm; λ_{em} 300-800 nm (corresponds)	Conforms	Conforms
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
pKa	6.8	6.8
λ , 0.1 M in H ₂ O	Pass	Pass

A handwritten signature in black ink that reads "John Su".John Su
QA & QC Manager