

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

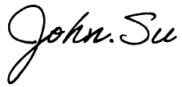
Date of Testing: 2022-10-21 14:46:11
 Date of Next Testing: 2026-10-20 14:46:11
 Product Name: **Imidazole**
 CAS Number: 288-32-4
 Specifications & Purity: 99.5%,for Fluorimetric Analysis
 Lot #: J2217700
 SKU #: **I108705**
Analysis: **148746**
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Nickel(Ni)	0-5 (ppm)	1.65 ppm
Potassium(K)	0-50 (ppm)	13.65 ppm
Iron(Fe)	0-5 (ppm)	1.86 ppm
Zinc(Zn)	0-5 (ppm)	2.37 ppm
Purity(GC)	99.5-100 (%)	99.71 %
Calcium(Ca)	0-10 (ppm)	2.64 ppm
Chloride (Cl-)	0-50 (ppm)	13.68 ppm
Sodium(Na)	0-50 (ppm)	14.63 ppm
Cadmium(Cd)	0-5 (ppm)	1.25 ppm
PH	9.5-11	10.49
Ignition Residue (as sulfate)	0-0.05 (%)	0.00 %
Chromium(Cr)	0-5 (ppm)	1.06 ppm
Strontium(Sr)	0-5 (ppm)	1.40 ppm
UV Absorbance 280nm	0-0.1	0.09
Copper(Cu)	0-5 (ppm)	0.26 ppm
UV Absorbance 260nm	0-0.1	0.04
Molybdenum(Mo)	0-5 (ppm)	1.20 ppm
Melting point	86-92 (°C)	91.40000 °C
Magnesium(Mg)	0-5 (ppm)	0.64 ppm
Lithium(Li)	0-5 (ppm)	0.97 ppm
Manganese(Mn)	0-5	1.35
(Pb)Lead	0-5 (ppm)	1.24 ppm
Cobalt(Co)	0-5 (ppm)	0.36 ppm
Water by Karl Fischer	0-0.2 (%)	0.05 %
Sulfate(SO42-)	0-50 (ppm)	12.63 ppm
Appearance (I108705)	White to Off-White Powder White to Off-White Powder	

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Parameter	Limit Values	Result
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