

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

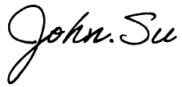
Date of Testing: 2023-01-06 11:19:13
 Date of Next Testing: 2027-01-05 11:19:13
 Product Name: **Imidazole**
 CAS Number: 288-32-4
 Specifications & Purity: 99.5%,for Fluorimetric Analysis
 Lot #: D1908005
 SKU #: **I108705**
Analysis: **175183**
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Nickel(Ni)	0-5 (ppm)	2.30 ppm
Potassium(K)	0-50 (ppm)	26.00 ppm
Iron(Fe)	0-5 (ppm)	1.90 ppm
Zinc(Zn)	0-5 (ppm)	2.50 ppm
Purity(GC)	99.5-100 (%)	99.75 %
Calcium(Ca)	0-10 (ppm)	4.80 ppm
Chloride (Cl-)	0-50 (ppm)	31.00 ppm
Sodium(Na)	0-50 (ppm)	25.00 ppm
Cadmium(Cd)	0-5 (ppm)	3.10 ppm
PH	9.5-11	9.83
Ignition Residue (as sulfate)	0-0.05 (%)	0.03 %
Chromium(Cr)	0-5 (ppm)	2.80 ppm
Strontium(Sr)	0-5 (ppm)	2.40 ppm
UV Absorbance 280nm	0-0.1	0.01
Copper(Cu)	0-5 (ppm)	2.50 ppm
UV Absorbance 260nm	0-0.1	0.01
Molybdenum(Mo)	0-5 (ppm)	1.60 ppm
Melting point	86-92 (°C)	91.17000 °C
Magnesium(Mg)	0-5 (ppm)	2.90 ppm
Lithium(Li)	0-5 (ppm)	3.10 ppm
Manganese(Mn)	0-5	3.30
(Pb)Lead	0-5 (ppm)	1.80 ppm
Cobalt(Co)	0-5 (ppm)	2.20 ppm
Water by Karl Fischer	0-0.2 (%)	0.13 %
Sulfate(SO42-)	0-50 (ppm)	29.00 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