

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

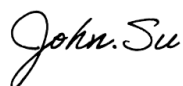
Date of Testing: 2025-04-03 15:34:09
 Date of Next Testing: 2027-03-24 15:34:09
 Product Name: **Imidazole**
 CAS Number: 288-32-4
 Specifications & Purity: $\geq 99.5\%$, for buffer
 Lot #: D2502304
 SKU #: **I108704**
 Version: **0**
 Analysis #: **488498**
 Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
PH(25 °C, 50 mg/mL in Water)	9.5-11	10.29700
Cobalt(Co)	0-5 (ppm)	0.32500 ppm
UV Absorbance 260nm	0-0.01	0.00710
Ignition Residue (as sulfate)	0-0.1 (%)	0.02378 %
(Pb)Lead	0-5 (ppm)	0.00200 ppm
Manganese(Mn)	0-5	0.08200
Magnesium(Mg)	0-5 (ppm)	0.00100 ppm
Melting point	86-92 (°C)	90.90000 °C
Copper(Cu)	0-5 (ppm)	0.10800 ppm
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	1.52400 ppm
Chromium(Cr)	0-5 (ppm)	0.26300 ppm
Cadmium(Cd)	0-5 (ppm)	0.17080 ppm
Sodium(Na)	0-50 (ppm)	0.83500 ppm
Chloride (Cl ⁻)	0-50 (ppm)	0.10800 ppm
Calcium(Ca)	0-10 (ppm)	0.45000 ppm
Purity(GC)	99.5-100 (%)	99.77000 %
UV Absorbance 280nm	0-0.01	0.00730
Zinc(Zn)	0-5 (ppm)	0.22400 ppm
Iron(Fe)	0-5 (ppm)	0.61480 ppm
Potassium(K)	0-50 (ppm)	1.50260 ppm
Nickel(Ni)	0-5 (ppm)	0.18980 ppm
Appearance (I108704)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure

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Parameter	Limit Values	Result
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