

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

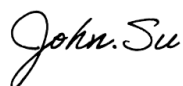
Date of Testing: 2025-07-15 18:37:59
 Date of Next Testing: 2027-07-05 18:37:59
 Product Name: **Imidazole**
 CAS Number: 288-32-4
 Specifications & Purity: $\geq 99.5\%$, for buffer
 Lot #: G2504518
 SKU #: **I108704**
 Version: **0**
 Analysis #: **527484**
 Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
PH(25 °C, 50 mg/mL in Water)	9.5-11	10.25200
Cobalt(Co)	0-5 (ppm)	4.00000 ppm
UV Absorbance 260nm	0-0.1	0.04820
Ignition Residue (as sulfate)	0-0.1 (%)	0.09000 %
(Pb)Lead	0-5 (ppm)	4.00000 ppm
Manganese(Mn)	0-5	4.00000
Magnesium(Mg)	0-5 (ppm)	4.00000 ppm
Melting point	86-92 (°C)	89.35000 °C
Copper(Cu)	0-5 (ppm)	4.00000 ppm
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	49.00000 ppm
Chromium(Cr)	0-5 (ppm)	4.00000 ppm
Cadmium(Cd)	0-5 (ppm)	4.00000 ppm
Sodium(Na)	0-50 (ppm)	49.00000 ppm
Chloride (Cl ⁻)	0-50 (ppm)	49.00000 ppm
Calcium(Ca)	0-10 (ppm)	9.00000 ppm
Purity(GC)	99.5-100 (%)	99.89000 %
UV Absorbance 280nm	0-0.1	0.07710
Zinc(Zn)	0-5 (ppm)	4.00000 ppm
Iron(Fe)	0-5 (ppm)	4.00000 ppm
Potassium(K)	0-50 (ppm)	49.00000 ppm
Nickel(Ni)	0-5 (ppm)	4.00000 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