

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-24 08:17:46

Date of Next Testing: 2025-03-13 08:17:46

 Product Name: **Imidazole**

CAS Number: 288-32-4

Specifications &amp; Purity: 99.5% , for buffer

Lot #: C2320170

 SKU #: **I108704**
**Analysis:** **197726**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
PH(25 °C, 50 mg/mL in Water)	9.5-11	10.35
Cobalt(Co)	0-5 (ppm)	0.11 ppm
UV Absorbance 260nm	0-0.01	0.00
Ignition Residue (as sulfate)	0-0.1 (%)	0.03 %
(Pb)Lead	0-5 (ppm)	0.01 ppm
Manganese(Mn)	0-5	0.00
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	1.00 ppm
Sulfate(SO42-)	0-50 (ppm)	1.12 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	0.00 ppm
Chloride (Cl-)	0-50 (ppm)	0.01 ppm
Calcium(Ca)	0-10 (ppm)	0.14 ppm
Purity(GC)	99.5-100 (%)	99.88 %
UV Absorbance 280nm	0-0.01	0.00
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.01 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Melting point	86-92 (°C)	91.82000 °C
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
pKa	6.8	6.8

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Parameter	Limit Values	Result
$\lambda$ , 0.1 M in H <sub>2</sub> O	Pass	Pass

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager