

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-23 15:05:13

Date of Next Testing: 2025-08-12 15:05:13

 Product Name: **Imidazole**

CAS Number: 288-32-4

Specifications & Purity: 99.5% , for buffer

Lot #: H2316427

 SKU #: **I108704**
Analysis: **259394**

Storage Temperature: Desiccated

| Parameter | Limit Values | Result |
|-------------------------------|---|---|
| PH(25 °C, 50 mg/mL in Water) | 9.5-11 | 10.25 |
| Cobalt(Co) | 0-5 (ppm) | 0.00 ppm |
| UV Absorbance 260nm | 0-0.01 | 0.01 |
| Ignition Residue (as sulfate) | 0-0.1 (%) | 0.00 % |
| (Pb)Lead | 0-5 (ppm) | 0.01 ppm |
| Manganese(Mn) | 0-5 | 0.00 |
| Magnesium(Mg) | 0-5 (ppm) | 0.00 ppm |
| Melting point | 86-92 (°C) | 91.62000 °C |
| Copper(Cu) | 0-5 (ppm) | 0.01 ppm |
| Sulfate(SO42-) | 0-50 (ppm) | 1.34 ppm |
| Chromium(Cr) | 0-5 (ppm) | 0.00 ppm |
| Cadmium(Cd) | 0-5 (ppm) | 0.02 ppm |
| Sodium(Na) | 0-50 (ppm) | 2.14 ppm |
| Chloride (Cl-) | 0-50 (ppm) | 1.00 ppm |
| Calcium(Ca) | 0-10 (ppm) | 0.23 ppm |
| Purity(GC) | 99.5-100 (%) | 99.88 % |
| UV Absorbance 280nm | 0-0.01 | 0.01 |
| Zinc(Zn) | 0-5 (ppm) | 0.02 ppm |
| Iron(Fe) | 0-5 (ppm) | 0.51 ppm |
| Potassium(K) | 0-50 (ppm) | 0.00 ppm |
| Nickel(Ni) | 0-5 (ppm) | 0.00 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 |
| pKa | 6.8 | 6.8 |

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| Parameter | Limit Values | Result |
|--------------------------------------|--------------|--------|
| 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