

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-04-14 16:06:59  
 Date of Next Testing: 2028-04-03 16:06:59  
 Product Name: **Imidazole**  
 CAS Number: 288-32-4  
 Specifications & Purity:  $\geq 99.5\%$ , for buffer  
 Lot #: D2607434  
 SKU #: **I108704**  
 Version: **0**  
 Analysis #: **663817**  
 Storage Temperature: Room temperature, Argon charged, Desiccated

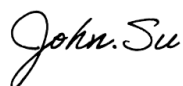
| Parameter                               | Limit Values                                      | Result                                            |
|-----------------------------------------|---------------------------------------------------|---------------------------------------------------|
| PH(25 °C, 50 mg/mL in Water)            | 9.5-11                                            | 10.15500                                          |
| Cobalt(Co)                              | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| UV Absorbance 260nm                     | 0-0.1                                             | 0.05190                                           |
| Ignition Residue (as sulfate)           | 0-0.1 (%)                                         | 0.10000 %                                         |
| (Pb)Lead                                | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Manganese(Mn)                           | 0-5                                               | 5.00000                                           |
| Magnesium(Mg)                           | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Melting point                           | 86-92 (°C)                                        | 90.71000 °C                                       |
| Copper(Cu)                              | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> ) | 0-50 (ppm)                                        | 50.00000 ppm                                      |
| Chromium(Cr)                            | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Cadmium(Cd)                             | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Sodium(Na)                              | 0-50 (ppm)                                        | 50.00000 ppm                                      |
| Chloride (Cl <sup>-</sup> )             | 0-50 (ppm)                                        | 50.00000 ppm                                      |
| Calcium(Ca)                             | 0-10 (ppm)                                        | 10.00000 ppm                                      |
| UV Absorbance 280nm                     | 0-0.1                                             | 0.06330                                           |
| Zinc(Zn)                                | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Iron(Fe)                                | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Potassium(K)                            | 0-50 (ppm)                                        | 50.00000 ppm                                      |
| Nickel(Ni)                              | 0-5 (ppm)                                         | 5.00000 ppm                                       |
| Purity(GC)                              | 99.5-100 (%)                                      | 99.79000 %                                        |
| 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                             |

---

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

| Parameter                             | Limit Values | Result |
|---------------------------------------|--------------|--------|
| pKa                                   | 6.8          | 6.8    |
| $\lambda$ , 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