

Certificate of Analysis

Date of Testing: 2025-04-29 09:52:40

Date of Next Testing: 2027-04-19 09:52:40

Product Name: **Imidazole**

CAS Number: 288-32-4

Specifications & Purity: $\geq 99.5\%$, for buffer

Lot #: D2525323

SKU #: **I108704**

Version: **0**

Analysis #: **498330**

Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
PH(25 °C, 50 mg/mL in Water)	9.5-11	10.23
Cobalt(Co)	0-5 (ppm)	0.33 ppm
UV Absorbance 260nm	0-0.01	0.01
Ignition Residue (as sulfate)	0-0.1 (%)	0.03 %
(Pb)Lead	0-5 (ppm)	0.12 ppm
Manganese(Mn)	0-5	0.58
Magnesium(Mg)	0-5 (ppm)	0.03 ppm
Melting point	86-92 (°C)	90.58000 °C
Copper(Cu)	0-5 (ppm)	0.02 ppm
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.18 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	0.54 ppm
Chloride (Cl ⁻)	0-50 (ppm)	0.43 ppm
Calcium(Ca)	0-10 (ppm)	0.16 ppm
Purity(GC)	99.5-100 (%)	99.83 %
UV Absorbance 280nm	0-0.01	0.01
Zinc(Zn)	0-5 (ppm)	0.03 ppm
Iron(Fe)	0-5 (ppm)	0.15 ppm
Potassium(K)	0-50 (ppm)	0.62 ppm
Nickel(Ni)	0-5 (ppm)	0.36 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



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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