

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-03-11 17:53:54
Date of Next Testing:	2025-02-28 17:53:54
Product Name:	<b>Imidazole</b>
CAS Number:	288-32-4
Specifications & Purity:	99.5% , for buffer
Lot #:	C2306328
SKU #	<b>I108704</b>
<b>Analysis:</b>	<b>191194</b>
Storage Temperature:	Desiccated

Parameter	Limit Values	Result
PH(25 °C, 50 mg/mL in Water)	9.5-11	10.38
Cobalt(Co)	0-5 (ppm)	0.36 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.03 %
(Pb)Lead	0-5 (ppm)	1.18 ppm
Manganese(Mn)	0-5	0.49
Magnesium(Mg)	0-5 (ppm)	0.59 ppm
Melting point	86-92 (°C)	91.00000 °C
Copper(Cu)	0-5 (ppm)	1.41 ppm
Sulfate(SO42-)	0-50 (ppm)	3.82 ppm
Chromium(Cr)	0-5 (ppm)	0.26 ppm
Cadmium(Cd)	0-5 (ppm)	1.36 ppm
Sodium(Na)	0-50 (ppm)	4.82 ppm
Chloride (Cl-)	0-50 (ppm)	2.82 ppm
Calcium(Ca)	0-10 (ppm)	1.08 ppm
Purity(GC)	99.5-100 (%)	99.99 %
Zinc(Zn)	0-5 (ppm)	0.45 ppm
Iron(Fe)	0-5 (ppm)	0.41 ppm
Potassium(K)	0-50 (ppm)	2.41 ppm
Nickel(Ni)	0-5 (ppm)	1.15 ppm
UV Absorbance 260nm	0-0.01	0.01
UV Absorbance 280nm	0-0.01	0.01
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