

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-17 16:02:41

Date of Next Testing: 2025-01-16 16:02:41

Product Name: **1-(2-Cyanoethyl)-2-ethyl-4-methylimidazole (contains 5-methyl isomer)**

CAS Number: 23996-25-0

Specifications & Purity: $\geq 70.0\%$ (GC)

Lot #: D2115254

SKU # **C133754**

Analysis: **179862**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	70-100 (%)	70.12 %
Refractive index n ₂₀ /D	1.505-1.509	1.51
Purity(Nonaqueous Titration)	98-100 (%)	99.46 %
Appearance (C133754)	Colorless to light yellow or brown Liquid	Colorless to light yellow or brown Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager