

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-06-20 12:11:57
 Date of Next Testing: 2026-06-19 12:11:57
 Product Name: **1-Pentanol**
 CAS Number: 71-41-0
 Specifications & Purity: high-purity , >99.5%(GC)
 Lot #: F2214680
 SKU #: **P108126**
 Analysis: **094609**

Parameter	Limit Values	Result
Calcium(Ca)	0-50 (%)	24.70%
Iron(Fe)	0-50 (%)	25.10%
Chromium(Cr)	0-0.02 (ppm)	0.01 ppm
Boron(B)	0-0.02 (ppm)	0.01 ppm
Water by Karl Fischer	0-0.1 (%)	0.05%
Zinc(Zn)	0-10 (%)	5.30%
Cobalt(Co)	0-0.02 (ppm)	0.01 ppm
Barium(Ba)	0-10 (%)	5.00%
Aluminum(Al)	0-50 (%)	25.60%
Sn (Tin)	0-10 (%)	4.80%
Nickel(Ni)	0-0.02 (ppm)	0.01 ppm
Manganese(Mn)	0-0.02 (ppm)	0.01 ppm
Magnesium(Mg)	0-10 (%)	5.00%
Evaporation Residue	0-0.005 (%)	0.00%
Valerian aldehyde (GC)	0-0.1 (%)	0.05%
(Pb)Lead	0-10 (%)	5.32%
Cadmium(Cd)	0-5 (%)	2.78%
Purity(GC)	99.5-100 (%)	99.78%
free acid (as CH ₃ COOH)	0-0.005 (%)	0.00%
Copper(Cu)	0-0.02 (ppm)	0.01 ppm
Appearance (P108126)	Colorless liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Readily carbonizable substance	pass	Pass



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager