

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-12 17:20:58
 Date of Next Testing: 2026-12-11 17:20:58
 Product Name: **4-Nitrophthalonitrile**
 CAS Number: 31643-49-9
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: L2209896
 SKU #: **N130031**
 Version: **1**
 Analysis #: **158477**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	136-145 (°C)	142.89000 °C
Nitrogen by Elemental Analysis	23.9-24.6 (%)	24.23600 %
Purity(GC)	98-100 (%)	99.63400 %
Carbon by Elemental Analysis	53.8-55.9 (%)	55.46900 %
Appearance (N130031)	white to pale yellow Powder, Crystals and/or Chunk	white to pale yellow Powder, Crystals and/or Chunk
Solubility in Acetone	almost transparency	almost transparency
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager