

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-13 09:18:25
 Date of Next Testing: 2027-03-12 09:18:25
 Product Name: **D-Valinol**
 CAS Number: 4276-09-9
 Specifications & Purity: $\geq 98\%$
 Lot #: G1202048
 SKU #: **V118431**
 Version: **1**
 Analysis #: **197731**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Melting point	32-36 (°C)	33.50000 °C
Purity(GC)	98-100 (%)	98.12400 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in EtOH})$	-19--16 (°)	-17.20000 °
Appearance (V118431)	white to yellow solid,colorless to yellow liquid	white to yellow solid,colorless to yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager