

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-23 18:59:41  
Date of Next Testing: 2027-02-22 18:59:41  
Product Name: **DL-Menthol**  
CAS Number: 89-78-1  
Specifications & Purity: 98%  
Lot #: B23171137  
SKU #: **M105138**  
**Analysis:** **176752**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.20%
Specific Rotation [α] <sub>20</sub> /D(c=10 in 95% EtOH)	-2-2 (°)	1.32°
Melting point	32-36 (°C)	34.25000 °C
Appearance (M105138)	white solid or colorless liquid	white solid or colorless liquid
Solubility in 95% EtOH , Colorless clear(c = 1 ml/1 ml)	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager