

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-12 10:17:25  
Date of Next Testing: 2025-05-01 10:17:25  
Product Name: **Methanol-12C,d4**  
CAS Number: 811-98-3  
Specifications & Purity: D,99.8% (0.03% v/v TMS)  
Lot #: E2306257  
SKU #: **M140114**  
Version: **0**  
Analysis #: **208517**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.81 %
Proton NMR (Atom % D)	99.8-100 (atom%)	99.89 atom%
Mass Balance(V/V TMS)	0.026-0.04 (%)	0.03 %
Water by Karl Fischer	0-0.1 (%)	0.04 %
Appearance (M140114)	Colorless liquid	Colorless liquid



John Su  
QA & QC Manager