

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-01-19 08:40:14  
Date of Next Testing: 2024-01-09 08:40:14  
Product Name: **Methanol-12C,d4**  
CAS Number: 811-98-3  
Specifications & Purity: D,99.8% (0.03% v/v TMS)  
Lot #: A2212412  
SKU #: **M140114**  
**Analysis:** **057291**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.83%
Proton NMR (Atom % D)	99.8-100 (atom%)	99.82 atom%
Mass Balance(V/V TMS)	0.026-0.04 (%)	0.03%
Water by Karl Fischer	0-0.025 (%)	0.01%
Appearance (M140114)	Colorless liquid	Colorless liquid



John Su  
QA & QC Manager