

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-01-04 17:50:13  
Date of Next Testing: 2024-12-24 17:50:13  
Product Name: **Methanol-12C,d4**  
CAS Number: 811-98-3  
Specifications & Purity: D,99.8% (0.05% v/v TMS)  
Lot #: L2214040  
SKU #: **M102264**  
**Analysis: 120810**  
Storage Temperature: Protected from light,Room temperature,Argon charged,Desiccated

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.025 (%)	0.02 %
Purity(GC)	99-100 (%)	99.80 %
Proton NMR (Atom % D)	99.8-100 (atom%)	99.88 atom%
Mass Balance(V/V TMS)	0.046-0.06 (%)	0.05 %
Appearance (M102264)	Colorless liquid	Colorless liquid



John Su  
QA & QC Manager