

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-06 18:51:16
 Date of Next Testing: 2028-11-05 18:51:16
 Product Name: **Tetramethylammonium hydroxide pentahydrate**
 CAS Number: 10424-65-4
 Specifications & Purity: $\geq 97\%$
 Lot #: J2429115
 SKU #: **T105041**
 Version: **0**
 Analysis #: **213252**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Melting point	67-73 (°C)	68.40000 °C
Purity(Neutralization titration)(calcd.on anh.substance)	96.5-103.5 (%)	98.19000 %
PH(1%,in Water)	12.5-13.5	12.85000
Alkalinity	46.5-49.5 (%)	49.26000 %
Carbonate(CO ₃)	0-1 (%)	0.58000 %
Water by Karl Fischer	44-52 (%)	48.30000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance (T105041)	Colorless needles, crystals or solid	Colorless needles, crystals or solid
Solubility in H ₂ O , Colorless, Clear, 100 mg/mL, H ₂ O	pass	Pass



John Su
QA & QC Manager