

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-29 15:46:11  
Date of Next Testing: 2026-05-28 15:46:11  
Product Name: **4'-Piperazinoacetophenone**  
CAS Number: 51639-48-6  
Specifications & Purity: 94%  
Lot #: E23231278  
SKU #: **P170727**  
**Analysis:** **213995**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Assay(Titration by HClO <sub>4</sub> )	93.5-107 (%)	96.76 %
Appearance (P170727)	White to Yellow to Tan Powder, Crystals or Chunks	White to Yellow to Tan Powder, Crystals or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager