

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-10 11:21:19
 Date of Next Testing: 2026-04-09 11:21:19
 Product Name: **Tributylammonium pyrophosphate**
 CAS Number: 5975-18-8
 Specifications & Purity: $\geq 98\%$
 Lot #: C23311470
 SKU #: **T332771**
 Version: **1**
 Analysis #: **210193**
 Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.20490 %
Carbon by Elemental Analysis(anhydrous)	46.0-48.8 (%)	47.85400 %
Nitrogen by Elemental Analysis (anhydrous)	4.4-4.8 (%)	4.78300 %
mol/mol(Tributylammonium Content:Pyrophosphate)	1.25 - 1.75	1.53000
Appearance(T332771)	white to off-white powder or chunks	White to Off-White Powder or Chunks
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Carbon NMR Spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager