

## Certificate of Analysis

Date of Testing: 2023-06-05 15:38:12  
Date of Next Testing: 2027-06-04 15:38:12  
Product Name: **Tetrabutylammonium sulfate solution**  
CAS Number: 2472-88-0  
Specifications & Purity: 50wt% in water  
Lot #: E2330836  
SKU #: **T102283**  
Analysis: **218989**

Parameter	Limit Values	Result
Titration by Ba(ClO <sub>4</sub> ) <sub>2</sub>	45-55 (%)	51.10 %
Appearance (T102283)	Colorless Liquid	Colorless liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager