

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-20 16:52:20  
Date of Next Testing: 2024-09-09 16:52:20  
Product Name: **1-Butyl-3-methylimidazolium tetrafluoroborate**  
CAS Number: 174501-65-6  
Specifications & Purity: 97%  
Lot #: I2214548  
SKU #: **B107645**  
**Analysis:** **119073**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.60 %
Refractive index n <sub>20</sub> /D	1.421-1.425	1.42
Purity(HPLC)	97-100 (%)	99.75200 %
Density (20°C)	1.204-1.209	1.20
Appearance (B107645)	Colorless to Yellow,Brown Liquid or Viscous Liquid	Colorless to Yellow,Brown Liquid or Viscous Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager