

## Certificate of Analysis

Date of Testing: 2024-10-29 10:50:03  
Date of Next Testing: 2028-10-28 10:50:03  
Product Name: **1-Butyl-3-methylimidazolium Trifluoromethanesulfonate**  
CAS Number: 174899-66-2  
Specifications & Purity:  $\geq 97\%$   
Lot #: J2425372  
SKU #: **B111364**  
Version: **1**  
Analysis #: **411011**

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.437-1.442	1.44
Water by Karl Fischer	0-1 (%)	0.17 %
Purity(HPLC)	97-100 (%)	99.42000 %
Appearance (B111364)	colorless to brown liquid	colorless to brown liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager