

## Certificate of Analysis

Date of Testing: 2024-08-22 16:54:07  
Date of Next Testing: 2028-08-21 16:54:07  
Product Name: **1-Butyl-3-methylimidazolium Trifluoromethanesulfonate**  
CAS Number: 174899-66-2  
Specifications & Purity:  $\geq 97\%$   
Lot #: H2420484  
SKU #: **B111364**  
Version: **0**  
Analysis #: **396271**

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.437-1.442	1.44
Water by Karl Fischer	0-1 (%)	0.13 %
Density (20°C)	1.3-1.311	1.31
Purity(HPLC)	97-100 (%)	99.56900 %
Appearance (B111364)	colorless to brown liquid	colorless to brown liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager