

Certificate of Analysis

Date of Testing: 2024-06-06 11:44:57
Date of Next Testing: 2028-06-05 11:44:57
Product Name: **1-Butyl-3-methylimidazolium Trifluoromethanesulfonate**
CAS Number: 174899-66-2
Specifications & Purity: $\geq 97\%$
Lot #: F2404197
SKU #: **B111364**
Version: **0**
Analysis #: **353013**

| Parameter | Limit Values | Result |
|-------------------------------------|---------------------------|---------------------------|
| Refractive index n ₂₀ /D | 1.437-1.442 | 1.44 |
| Density (20°C) | 1.3-1.311 | 1.31 |
| Water by Karl Fischer | 0-1 (%) | 1.00 % |
| Purity(HPLC) | 97-100 (%) | 98.04800 % |
| Appearance (B111364) | colorless to brown liquid | colorless to brown liquid |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager