

## Certificate of Analysis

Date of Testing: 2024-11-06 13:12:41  
Date of Next Testing: 2028-11-05 13:12:41  
Product Name: **1,3-Dicyclohexylimidazolium Tetrafluoroborate**  
CAS Number: 286014-38-8  
Specifications & Purity:  $\geq 98\%$ (HPLC)  
Lot #: J2431637  
SKU #: **D154826**  
Version: **0**  
Analysis #: **333483**

| Parameter             | Limit Values                                 | Result                                       |
|-----------------------|--|--|
| Purity(HPLC)          | 98-100 (%)                                   | 100.00000 %                                  |
| Melting point         | 172-176 (°C)                                 | 175.40000 °C                                 |
| Appearance (D154826)  | White to brown powder,crystals and/or chunks | White to brown powder,crystals and/or chunks |
| Fluorine NMR Spectrum | Conforms to Structure                        | Conforms to Structure                        |
| Proton NMR spectrum   | Conforms to Structure                        | Conforms to Structure                        |



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