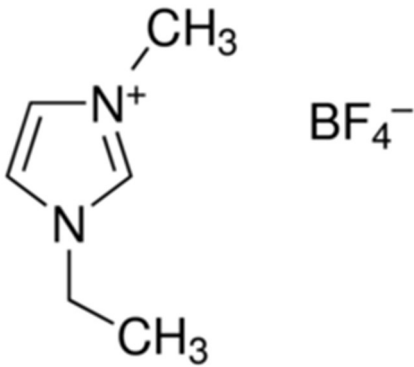


**EMIM-BF<sub>4</sub>**

PI.PS.00103.1000\_03

|                                 |                                                                                    |  |  |
|---------------------------------|------------------------------------------------------------------------------------|--|--|
| <b>product name</b>             | <b>1-Ethyl-3-methylimidazolium tetrafluoroborate</b>                               |  |  |
| <b>chemical structure</b>       |  |  |  |
| <b>PI product number</b>        | 00103.1000                                                                         |  |  |
| <b>molecular weight</b>         | 197.97 g·mol <sup>-1</sup>                                                         |  |  |
| <b>molecular formula</b>        | C <sub>6</sub> H <sub>11</sub> N <sub>2</sub> BF <sub>4</sub>                      |  |  |
| <b>CAS</b>                      | 143314-16-3                                                                        |  |  |
| <b>purity</b>                   | <b>electronic grade</b>                                                            |  |  |
| <b>quality</b>                  | ≥ 99.5 %w                                                                          |  |  |
| <b>assay fluoride</b>           | ≤ 3000 ppm <sub>w</sub> , IC                                                       |  |  |
| <b>halides, except chloride</b> | ≤ 10 ppm <sub>w</sub> , IC                                                         |  |  |
| <b>assay H<sub>2</sub>O</b>     | ≤ 80 ppm <sub>w</sub> , Karl Fischer Titration                                     |  |  |
| <b>assay 1-alkylimidazole</b>   | ≤ 500 ppm <sub>w</sub> , HPLC                                                      |  |  |
| <b>aspect</b>                   | clear liquid, acc. to Ph. Eur. 5.0                                                 |  |  |
| <b>color number</b>             | < 500, APHA-Hazen-scale                                                            |  |  |
| <b>ΔE</b>                       | > 4.5 V, WE: Pt, CE: Pt, RE: W/WO <sub>3</sub> ; 10mV/s; ± 1 mA/cm <sup>2</sup>    |  |  |