

## CERTIFICATE OF ANALYSIS

**Product Name:** 1-Ethyl-3-methylimidazolium  
trifluoroacetate

**CAS Number:** 174899-65-1

**Product Number:** IL-0027-SG

**Lot:**

**Supplier:** IoLiTec  
Ionic Liquids Technologies GmbH  
Im Zukunftspark 9  
D-74076 Heilbronn  
Germany  
Phone: +49-(0)7131-89839-0  
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**ROCO**

**Distributor**

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Pittsburgh, PA 15205

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### Analysis:

|                                  | Specification              |  |
|----------------------------------|----------------------------|--|
| Identity (NMR, IR)               | pass                       |  |
| Assay (NMR)                      | >97%                       |  |
| 1-Ethyl-3-methylimidazolium (IC) | >97%                       |  |
| Trifluoroacetate (IC)            | >97%                       |  |
| Halides (IC)                     | <100 ppm                   |  |
| Water (KF)                       | <1%                        |  |
| Appearance                       | Yellow to orange<br>liquid |  |
| Date                             | 17.01.2011                 |  |