

CERTIFICATE OF ANALYSIS

Product Name: 1-Dodecyl-3-methylimidazolium
tetrafluoroborate

CAS Number: 244193-59-7

Product Number: IL-0132-HP

Lot:

Supplier: IoLiTec
Ionic Liquids Technologies GmbH
Salzstrasse 184
D-74076 Heilbronn
Germany
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Analysis:

| | Specification | |
|-------------------------------------------|---------------------------------------|--|
| Identity (NMR, IR) | pass | |
| Assay (NMR) | >98% | |
| 1-Dodecyl-3-methylimidazolium (IC) | >98% | |
| Tetrafluoroborate (IC) | >98% | |
| Halides (IC) | <100 ppm | |
| Water (KF) | <0.1% | |
| Appearance | Yellow to orange low-melting solid | |
| Date | 02.01.2008 | |