

CERTIFICATE OF ANALYSIS

Product Name: 1-Butyl-1-methylpiperidinium
hexafluorophosphate

CAS Number: 1257647-66-7

Product Number: IL-0156-HP

Lot:

Supplier: IoLiTec
Ionic Liquids Technologies GmbH
Im Zukunftspark 9
D-74076 Heilbronn
Germany
Phone: +49-(0)7131-89839-0
Fax: +49-(0)7131-89839-109
Email: info@iolitec.de

Analysis:

| | Specification | |
|-----------------------------------|---------------------------|--|
| Identity (NMR, IR) | pass | |
| Assay (NMR) | >99% | |
| 1-Butyl-1-methylpiperidinium (IC) | >99% | |
| Hexafluorophosphate (IC) | >99% | |
| Halides (IC) | <100 ppm | |
| Water (KF) | <500 ppm | |
| Appearance | Yellow to orange solid | |
| Date | 10.06.2009 | |