

CERTIFICATE OF ANALYSIS

Product Name: 1-Butyl-2,3-dimethylimidazolium
hexafluorophosphate

CAS Number: 227617-70-1

Product Number: IL-0057-HP

Lot:

Supplier: IoLiTec
Ionic Liquids Technologies GmbH
Salzstrasse 184
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-2,3-dimethylimidazolium (IC) | >99% | |
| Hexafluorophosphate (IC) | >99% | |
| Halides (IC) | <100 ppm | |
| Water (KF) | <250 ppm | |
| Appearance | Colourless to yellowish solid | |
| Date | 02.01.2008 | |