

CERTIFICATE OF ANALYSIS

Product Name: 1-Butyl-3-methylimidazolium
hydrogen sulfate

CAS Number: 262297-13-2

Product Number: IL-0060-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) | >98% | |
| 1-Butyl-3-methylimidazolium (IC) | >98% | |
| Hydrogen sulfate (IC) | >98% | |
| Halides (IC) | <100 ppm | |
| Water (KF) | <2000 ppm | |
| Appearance | Yellow to orange low melting solid | |
| Date | 02.01.2008 | |