

CERTIFICATE OF ANALYSIS

Product Name: 1,3-Dimethylimidazolium
methyl sulfate

CAS Number: 97345-90-9

Product Number: IL-0243-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
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Analysis:

| | Specification | |
|------------------------------|----------------------------|--|
| Identity (NMR, IR) | pass | |
| Assay (NMR) | >98% | |
| 1,3-Dimethylimidazolium (IC) | >98% | |
| Methyl sulfate (IC) | >98% | |
| Halides (IC) | <100 ppm | |
| Water (KF) | <500 ppm | |
| Appearance | Yellow to orange liquid | |
| Date | 01.07.2009 | |