

## CERTIFICATE OF ANALYSIS

**Product Name:** 1-Butyl-3-methylimidazolium  
methysulfate

**CAS Number:** 401788-98-5

**Product Number:** IL-0195-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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**ROCO**

**Distributor**

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Pittsburgh, PA 15205

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### Analysis:

|                                  | Specification               |  |
|----------------------------------|-----------------------------|--|
| Identity (NMR, IR)               | pass                        |  |
| Assay (NMR)                      | >98%                        |  |
| 1-Butyl-3-methylimidazolium (IC) | >98%                        |  |
| Methylsulfate (IC)               | >98%                        |  |
| Halides (IC)                     | <100 ppm                    |  |
| Water (KF)                       | <1000 ppm                   |  |
| Appearance                       | Colourless to orange liquid |  |
| Date                             | 02.01.2008                  |  |