

CERTIFICATE OF ANALYSIS

Product Name: 1-Methyl-1-propylpyrrolidinium dicyanamide

CAS Number: 327022-60-6

Product Number: IL-0249-HP

Lot:

Supplier: IoLiTec
Ionic Liquids Technologies GmbH
Salzstrasse 184
D-74076 Heilbronn
Germany
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Analysis:

| | Specification | |
|-------------------------------------|-------------------------|--|
| Identity (NMR, IR) | pass | |
| Assay (NMR) | >98% | |
| 1-Methyl-1-propylpyrrolidinium (IC) | >98% | |
| Dicyanamide (IC) | >98% | |
| Halides (IC) | <2% | |
| Water (KF) | <2000 ppm | |
| Appearance | Yellow to orange liquid | |
| Date | 01.12.2009 | |