

# Technical Data Sheet

## 1-Hexyl-3-methylimidazolium trifluoromethanesulfonate

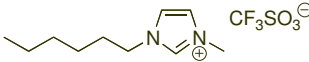
Revision Date: 1/19/2012

Date Issued: 9/30/2013

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | 1-Hexyl-3-methylimidazolium<br>trifluoromethanesulfonate  |
| <b>Product code</b>        | IL-0070   |
| <b>CAS</b>                 | 460345-16-8   |
| <b>Supplier</b>            | IoLiTec<br>Ionic Liquids Technologies GmbH<br>Salzstrasse 184<br>D – 74076 Heilbronn<br>Germany |
| <b>Telephone</b>           | +49 (0)7131-89839-0   |
| <b>Fax</b>                 | +49 (0)7131-89839-109   |
| <b>Emergency telephone</b> | +49 (0)179-5322578  |
| <b>Email</b>               | info@iolitec.de   |

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

|                          |  |
|--------------------------|--|
| <b>Ingredient name</b>   | 1-Hexyl-3-methylimidazolium<br>trifluoromethanesulfonate                             |
| <b>CAS No.</b>           | 460345-16-8  |
| <b>Empirical Formula</b> | C <sub>11</sub> H <sub>19</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S       |
| <b>Structure</b>         |  |
| <b>Molecular weight</b>  | 316.34 g/mol   |
| <b>Purity</b>            | >99%   |

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### 3 PROPERTIES

|   |                         |
|---|-------------------------|
| <b>Color</b>                            | Yellow to brown         |
| <b>Physical state (25 °C)</b>           | low melting solid       |
| <b>Melting point</b>                    | 29 °C                   |
| <b>Glass transition temperature</b>     | not available           |
| <b>Decomposition temperature</b>        | not available           |
| <b>Density (29 °C)</b>                  | 1.235 g/cm <sup>3</sup> |
| <b>Viscosity (25 °C)</b>                | 135 mPa * s             |
| <b>Heat capacity (47 °C)</b>            | 528 J/(mol * K)         |
| <b>Conductivity (24 °C)</b>             | 1.16 mS/cm              |
| <b>Electrochemical stability window</b> | not available           |
| <b>Anodic limit</b>                     | not available           |
| <b>Cathodic limit</b>                   | not available           |

### 4 CO-SOLVENT MISCIBILITY

|                     |                    |
|---------------------|--------------------|
| <b>Water</b>        | not miscible       |
| <b>Acetone</b>      | miscible           |
| <b>Acetonitrile</b> | not available      |
| <b>Isopropanol</b>  | miscible           |
| <b>Toluene</b>      | partially miscible |
| <b>Hexane</b>       | not miscible       |

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### 5 ORDER INFORMATION

IL-0070-HP can be obtained in the following standard quantities:

| Quantity | Price          |
|----------|----------------|
| 25 g     | Please enquire |
| 50 g     | Please enquire |
| 100 g    | Please enquire |
| 250 g    | Please enquire |
| 500 g    | Please enquire |
| 1 kg     | Please enquire |
| Bulk     | Please enquire |

Please send your order via email to [order@iolitec.de](mailto:order@iolitec.de) or fax +49 (0)7131 – 89839109.

### 6 OTHER INFORMATION

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DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.