

# Technical Data Sheet

## 1-Decyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide

Revision Date: 12/22/2011

Date Issued: 2/7/2022

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

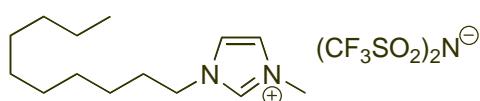
<b>Product name</b>	1-Decyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide
<b>Product code</b>	IL-0100
<b>CAS</b>	433337-23-6
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D – 74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131-89839-0
<b>Fax</b>	+49 (0)7131-89839-109
<b>Emergency telephone</b>	+49 (0)179-5322578
<b>Email</b>	info@iolitec.de



**Distributor**

1816 Parkway View Drive,  
Pittsburgh, PA 15205  
✉ Info@roco.global  
724-315-9170  
www.roco.global

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	1-Decyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide
<b>CAS No.</b>	433337-23-6
<b>Empirical Formula</b>	C <sub>16</sub> H <sub>27</sub> F <sub>6</sub> N <sub>3</sub> O <sub>4</sub> S <sub>2</sub>
<b>Structure</b>	 <p>The structure shows a decyl chain (a chain of 10 carbons) attached to a 3-methylimidazolium cation. The cation has a methyl group on the 3-position of the imidazolium ring and a (CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>N<sup>+</sup> group on the 1-position.</p>
<b>Molecular weight</b>	503.53 g/mol
<b>Purity</b>	>98%

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### 3 PROPERTIES

<b>Color</b>	Yellow to orange
<b>Physical state (25 °C)</b>	Liquid
<b>Melting point</b>	-2 °C
<b>Glass transition temperature</b>	-83 °C
<b>Decomposition temperature</b>	not available
<b>Density (30 °C)</b>	1.27 g/cm <sup>3</sup>
<b>Viscosity (24 °C)</b>	137 mPa * s
<b>Heat capacity (20 °C)</b>	not available
<b>Conductivity (24 °C)</b>	0.76 mS/cm
<b>Electrochemical stability window</b>	4.6 V
<b>Anodic limit</b>	2.6 V
<b>Cathodic limit</b>	-2.0 V

### 4 CO-SOLVENT MISCIBILITY

<b>Water</b>	not miscible
<b>Acetone</b>	miscible
<b>Acetonitrile</b>	miscible
<b>Isopropanol</b>	miscible
<b>Toluene</b>	miscible
<b>Hexane</b>	not miscible

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### 5 ORDER INFORMATION

IL-0100-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.