

# Technical Data Sheet

## 1-Propyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide

Revision Date: 1/9/2019  
Date Issued: 3/21/2022

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

**Product name** 1-Propyl-1-methylpyrrolidinium  
bis(trifluoromethylsulfonyl)imide

**Product code** IL-0044

**CAS** 223437-05-6

**Supplier** IoLiTec  
Ionic Liquids Technologies GmbH  
Im Zukunftspark 9  
D – 74076 Heilbronn  
Germany

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**Fax** +49 (0)7131-89839-109

**Emergency telephone** +49 (0)179-5322578

**Email** info@iolitec.de

**ROCO**

**Distributor**

1816 Parkway View Drive,  
Pittsburgh, PA 15205

✉ info@roco.global

724-315-9170

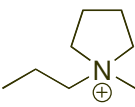
www.roco.global

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredient name** 1-Propyl-1-methylpyrrolidinium  
bis(trifluoromethylsulfonyl)imide

**CAS No.** 223437-05-6

**Empirical Formula** C<sub>10</sub>H<sub>18</sub>F<sub>6</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>

**Structure**  (CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>N<sup>⊖</sup>

**Molecular weight** 408.38 g/mol

**Purity** >99%

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### 3 PROPERTIES

<b>Color</b>	Colorless to orange
<b>Physical state (25 °C)</b>	Liquid
<b>Melting point</b>	12 °C
<b>Glass transition temperature</b>	-90 °C
<b>Decomposition temperature</b>	not available
<b>Density (29 °C)</b>	1.428 g/cm <sup>3</sup>
<b>Viscosity (25 °C)</b>	58.7 mPa * s
<b>Heat capacity (20 °C)</b>	550.7 J/(mol * K)
<b>Conductivity (30 °C)</b>	4.924 mS/cm
<b>Electrochemical stability window</b>	5.9 V
<b>Anodic limit</b>	2.7 V
<b>Cathodic limit</b>	-3.2 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>	not miscible
<b>Hexane</b>	not miscible

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### 5 ORDER INFORMATION

IL-0044-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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