

# Technical Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 2/13/2012

Date Issued: 2/7/2022

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

**Product name** 1-Butyl-3-methylimidazolium tetrafluoroborate

**Product code** IL-0012

**CAS** 174501-65-6

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

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**ROCO**

**Distributor**

1816 Parkway View Drive,  
Pittsburgh, PA 15205

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724-315-9170

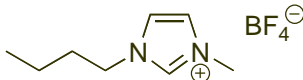
www.roco.global

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredient name** 1-Butyl-3-methylimidazolium tetrafluoroborate

**CAS No.** 174501-65-6

**Empirical Formula** C<sub>8</sub>H<sub>15</sub>BF<sub>4</sub>N<sub>2</sub>

**Structure** 

**Molecular weight** 226.02 g/mol

**Purity** >99%

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### 3 PROPERTIES

<b>Color</b>	Yellow to orange
<b>Physical state (25 °C)</b>	liquid
<b>Melting point</b>	-83 – (-75) °C
<b>Glass transition temperature</b>	-97 °C
<b>Decomposition temperature</b>	not available
<b>Density (25 °C)</b>	1.203 g/cm <sup>3</sup>
<b>Viscosity (25 °C)</b>	103 mPa * s
<b>Heat capacity (25 °C)</b>	351.5 – 364.8 J/(mol * K)
<b>Conductivity (20 °C)</b>	3.15 mS/cm
<b>Electrochemical stability window</b>	4.9 V
<b>Anodic limit</b>	2.2 V
<b>Cathodic limit</b>	-2.7 V

### 4 CO-SOLVENT MISCIBILITY

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

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### 5 ORDER INFORMATION

IL-0012-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.