

# Technical Data Sheet

## 1-Butyl-3-methylimidazolium hexafluorophosphate

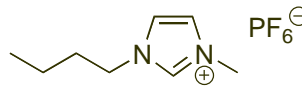
Revision Date: 1/19/2012

Date Issued: 2/7/2022

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

<b>Product name</b>	1-Butyl-3-methylimidazolium hexafluorophosphate
<b>Product code</b>	IL-0011
<b>CAS</b>	174501-64-5
<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

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	1-Butyl-3-methylimidazolium hexafluorophosphate
<b>CAS No.</b>	174501-64-5
<b>Empirical Formula</b>	C <sub>8</sub> H <sub>15</sub> F <sub>6</sub> N <sub>2</sub> P
<b>Structure</b>	
<b>Molecular weight</b>	284.18 g/mol
<b>Purity</b>	>99%

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### 3 PROPERTIES

<b>Color</b>	Colorless to yellow
<b>Physical state (25 °C)</b>	liquid
<b>Melting point</b>	-8 °C
<b>Glass transition temperature</b>	-76 °C
<b>Decomposition temperature</b>	>200 °C
<b>Density (25 °C)</b>	1.37 g/cm <sup>3</sup>
<b>Viscosity (25 °C)</b>	310 mPa * s
<b>Heat capacity (25 °C)</b>	398 J/(mol * K)
<b>Conductivity (20 °C)</b>	1.37 mS/cm
<b>Electrochemical stability window</b>	4.0 V
<b>Anodic limit</b>	2.2 V
<b>Cathodic limit</b>	-1.8 V

### 4 CO-SOLVENT MISCIBILITY

<b>Water</b>	not miscible, decomposition in presence of water
<b>Acetone</b>	miscible
<b>Acetonitrile</b>	not miscible
<b>Isopropanol</b>	not miscible
<b>Toluene</b>	not miscible
<b>Hexane</b>	not miscible

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### 5 ORDER INFORMATION

IL-0011-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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