

# Technical Data Sheet

## 1-Butyl-1-methylpyrrolidinium dicyanamide

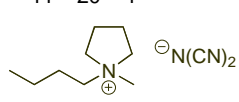
Revision Date: 12/22/2011

Date Issued: 9/26/2014

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

<b>Product name</b>	1-Butyl-1-methylpyrrolidinium dicyanamide
<b>Product code</b>	IL-0041
<b>CAS</b>	370865-80-8
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 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-1-methylpyrrolidinium dicyanamide
<b>CAS No.</b>	370865-80-8
<b>Empirical Formula</b>	C <sub>11</sub> H <sub>20</sub> N <sub>4</sub>
<b>Structure</b>	
<b>Molecular weight</b>	208.3 g/mol
<b>Purity</b>	>98%

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### 3 PROPERTIES

<b>Color</b>	Yellow to brown
<b>Physical state (25 °C)</b>	Liquid
<b>Melting point</b>	-55 °C
<b>Glass transition temperature</b>	-106 °C
<b>Decomposition temperature</b>	not available
<b>Density (20 °C)</b>	1.02 g/cm <sup>3</sup>
<b>Viscosity (20 °C)</b>	46 mPa * s
<b>Heat capacity (20 °C)</b>	not available
<b>Conductivity (24 °C)</b>	3.25 mS/cm
<b>Electrochemical stability window</b>	3.5 V
<b>Anodic limit</b>	3.0 V
<b>Cathodic limit</b>	-0.5 V

### 4 CO-SOLVENT MISCIBILITY

<b>Water</b>	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-0041-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.