

Technical Data Sheet

1-Butyl-3-methylimidazolium tetrafluoroborate

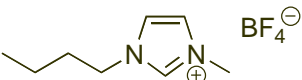
Revision Date: 2/13/2012

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
Telephone	+49 (0)7131-89839-0
Fax	+49 (0)7131-89839-109
Emergency telephone	+49 (0)179-5322578
Email	info@iolitec.de

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	1-Butyl-3-methylimidazolium tetrafluoroborate
CAS No.	174501-65-6
Empirical Formula	C ₈ H ₁₅ BF ₄ N ₂
Structure	
Molecular weight	226.02 g/mol
Purity	>99%

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3 PROPERTIES

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

4 CO-SOLVENT MISCIBILITY

Water	miscible under decomposition
Acetone	miscible
Acetonitrile	miscible
Isopropanol	not miscible
Toluene	not miscible
Hexane	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 or fax +49 (0)7131 – 89839109.

6 OTHER INFORMATION

DISCLAIMER

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