

Technical Data Sheet

Trihexyltetradecylphosphonium hexafluorophosphate

Revision Date: 6/26/2020

Date Issued: 2/8/2022

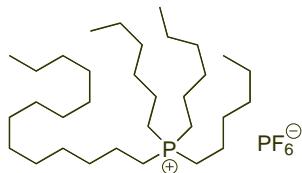
1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name	Trihexyltetradecylphosphonium hexafluorophosphate
Product code	IN-0012
CAS	374683-44-0
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D – 74076 Heilbronn Germany
Telephone	+49 (0)7131-89839-0
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	Trihexyltetradecylphosphonium hexafluorophosphate
CAS No.	374683-44-0
Empirical Formula	C ₃₂ H ₆₈ F ₆ P ₂
Structure	 <p>The structure shows a complex cation with a central phosphorus atom bonded to two hexyl groups (hexylidene) and two tetradecyl groups (hexadecylidene). The cation is paired with a PF₆⁻ anion.</p>
Molecular weight	628.82 g/mol
Purity	>95%

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3 PROPERTIES

Color	yellow to orange
Physical state (25 °C)	solid
Melting point	43°C
Glass transition temperature	not available
Decomposition temperature	not available
Density	1.104 g/cm ³
Viscosity	not available
Heat capacity	not available
Conductivity	not available
Electrochemical stability window	not available
Anodic limit	not available
Cathodic limit	not available

4 CO-SOLVENT MISCIBILITY

Water	not miscible
Acetone	miscible
Acetonitrile	miscible
Isopropanol	not miscible
Toluene	miscible
Hexane	not miscible

5 ORDER INFORMATION

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IN-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

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