Description

Product: 1-Butyl-3-Methylimidazolium Trifluoromethanesulfonate

Synonyms: [Bmim] TFO
Purity: 99.5%
CAS Number: [174899-66-2]
Molecular Formula: C₉H₁₅F₃O₃SN

Properties

Appearance: Slightly yellow to colorless liquid
Molecular Weight (g/mol): 288.29
Melting point (°C): 16
Density (g/cm³ at 20°C): 1.29
Viscosity (cP at 25°C): 179.14
Refractive index: 1.439
Conductivity (mS/cm at 20°C): 3.7
Decomposition temperature (°C): 409

Solubility

Miscibility with water: partially
Miscibility with isopropanol: Yes
Miscibility with methanol: Yes
Miscibility with acetonitrile: Yes
Miscibility with dichloromethane: Yes
Miscibility with trichloroethylene: No
Miscibility with toluene: No
Miscibility with hexane: No

Specification

Water content (Karl-Fisher) % ≤ 0.05
Halid (IC)
Br % ≤ 0.001
Cl % ≤ 0.001
Methylimidazole % ≤ 0.005

Color test by UV-Visible spectroscopy (Hazen)
Hazen < 20 – 10

Spectroscopy infrared
Corresponds to standard spectrum

Applications

- Catalysis

Units

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Product</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Im0405b10</td>
<td>1-Butyl-3-Methylimidazolium Trifluoromethanesulfonate 99.5%</td>
<td>10g</td>
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<td>Im0405b50</td>
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<td>Im0405b250</td>
<td>1-Butyl-3-Methylimidazolium Trifluoromethanesulfonate 99.5%</td>
<td>250g</td>
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Please inquire for bulk-quantities