IONIC LIQUID SCREENING KITS



Nano-Kits



Over the past years, ionic liquids (IL) have gained an increasing interest in the synthesis of inorganic materials and in particular in the synthesis of <u>nanoscaled</u> <u>materials</u>. The most important properties of ILs are

- the weak or non-coordinating properties of the anions,
- the polarity and surface tension,
- the possibility of supramolecular structures.

The template-effect often plays a key-role in the control of the size, the size-distribution and the shape of nano-materials. It was successfully demonstrated in numerous examples that ILs have a significant influence on the morphology of nanomaterials, if they were used as structure-directing media for the synthesis. IOLITEC offers two different nano-kits, each containing 5 different ILs:

Nano-Kit I: ("Variation anion & chain length")

- 1-Butyl-3-methylimidazolium tetrafluoroborate, <u>IL-0012-HP</u>
- 1-Methyl-3-octylimidazolium tetrafluoroborate, <u>IL-0021-HP</u>
- 1-Butyl-3-methyl-imidazolium hexafluorophosphate, IL-0011-HP
- 1-Methyl-3-octylimidazolium hexafluorophosphate, <u>IL-0020-HP</u>
- 1-Hexadecyl-3-methylimidazolium chloride, IL-0115-HP

Nano-Kit II: ("Variation cation")

- Butyl-3-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide, IL-0035-HP
- 1-Methyl-1-octylpyrrolidinium bis(trifluoromethylsulfonyl)imide, IL-0121-HP
- Butyltrimethylammonium bis(trifluoromethylsulfonyl)imide, IL-0032-HP
- Triethylsulfonium bis(trifluoromethylsulfonyl)imide, <u>IL-0030-HP</u>
- Trihexyltetradecylphosphonium bis(trifluoromethylsulfonyl)imide, IN-0021-HP

If other ionic liquids are desired, please have also a look at "myKit".