

Synthesis & Catalysis-Kit

Among the various applications the use of ionic liquids in synthesis and catalysis is surely the



scientific field that was studied most intensively over the past 10 years. Today there are many examples in scientific literature demonstrating that Ionic liquids enhance the reactivity and/or selectivity of a number of processes.^[1]

The most important physical and chemical properties of ionic liquids for their use in synthesis and catalysis are

- tunable miscibility with many starting materials and products for an easy separation,
- tunable hydrophobicity/hydrophilicity,
- a negligible vapor pressure,
- chemical and thermal stability.

Based on our database and the overview of the reactions that show better yields and/or selectivity, if performed it in ionic liquids, we have selected the following ionic liquids for Syntehsis & Catalysis kit:

- 1-Butyl-3-methyl-imidazolium tetrafluoroborate, IL-0012-HP
- 1-Butyl-3-methyl-imidazolium hexafluorophosphate, <u>IL-0011-HP</u>
- 1-Butyl-3-methyl-imidazolium trifluoromethanesulfonate, IL-0013-HP
- 1-Butyl-3-methyl-imidazolium bis(trifluoromethylsulfonyl)imide, IL-0029-HP
- 1-Butyl-3-methyl-imidazolium hydrogensulfate, <u>IL-0060-HP</u>

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

[1] *Ionic Liquids in Synthesis*, Second Edition, P. Wasserscheid and T. Welton (Eds.), *2008*, Wiley VCH Verlags GmbH & Co. KGaA, Weinheim.