

Electrochemistry-Kit

The fact that ionic liquids are consisting entirely of ions often results in a sufficient to good electric conductivity, in particular for a non-volatile liquid. As a consequence, a number of ionic liquids are suitable for electrochemical applications, because they combine extraordinary electrochemical properties, such as



- electric conductivity
- wide electrochemical window
- non-flammability
- very low vapour pressure

Thus, they are potentially interesting candidates for a number of different electrochemical applications. As a consequence, over the past years many applications were described in the literature:

- [Batteries](#)
- [\(Super-\)capacitors](#) (electric double layer capacitors, EDLCs)
- [Fuel cells](#)
- [Sensors](#)
- Actuators

Our electrochemistry kit, containing 5 different ionic liquids, is designed for those researchers, who have novel applications in mind and who like to start with a first set of ionic liquids that are commonly used for similar applications, where comparable properties and specifications are desired:

- **1-Butyl-3-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide, [IL-0035-HP](#)**
- **1-Ethyl-3-methylimidazolium trifluoromethanesulfonate, [IL-0009-HP](#)**
- **1-Ethyl-3-methylimidazolium tetrafluoroborate, [IL-0006-HP](#)**
- **1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide, [IL-0023-HP](#)**
- **Butyltrimethylammonium bis(trifluoromethylsulfonyl)imide, [IL-0032-HP](#)**

If other ionic liquids are desired, please have also a look at [„myKit“](#).