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# Exploration des liquides ioniques comme nouvelle classe de solvants pour les réactions chimiques

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## Exploration of Room Temperature Ionic Liquids as New Class of Solvents for Chemical Reactions

*Abstract:* Ionic liquids based on laurylsulfates and tosylates anions were developed and characterized. A Heck reaction (synthesis of *trans*-ethylcinnamate) was optimized in 1-butyl-3-methyl-imidazolium-tosylate ionic liquid. The recycling of the reaction medium, including the catalyst and the ionic liquid, was carefully studied and the following results were obtained: eleven reactions were performed without further catalyst additions, the average yield was 85% with an average reaction time of 10 h.

**Keywords:** Heck reaction · Ionic liquids development · Recycling