

Ionic Liquids - Fascinating Materials for Your Challenges

Dear customer,

We hope to serve you with some interesting news around the field of Ionic Liquids!

□ 1-Ethyl-3-methylimidazolium methanesulfonate

Within the last two years, several ionic liquids with the Ethylmethylimidazolium ([EMIM]) cation have become increasingly popular as opposed to Butylmethylimidazolium ([BMIM]) cations. Reasons that in some cases the [EMIM] cation is favored against [BMIM] are a) superior physicochemical properties especially when we are looking at halogen-free anions, b) a significantly better toxicological profile and c) a new large-scale access to the [EMIM]-cation.

The 1-Ethyl-3-methylimidazolium methanesulfonate is a relatively new ionic liquid for a wide variety of applications. This can be attributed to its high hydrolytical and thermal stability. Furthermore, preliminary results indicate low toxicology, similar to the ECOENG™ 212.

Solvent Innovation has worked on the optimisation of this ionic liquids' production process. We now offer 1-Ethyl-3-methylimidazolium methanesulfonate in an intrinsically halide-free (!) quality (as opposed to qualities available from other suppliers) meaning that during the synthesis no halide precursors were used.

We sell this ionic liquid at a significantly reduced promotion price of 682 Euro (500g) and 988 Euro (1 kg) respectively valid until August 31st.

□ New extraction process for azo dyes

Azo dyes are commonly used in the leather and textile industry. However, typically 10-15% of the dye is discharged creating ecological issues and economical losses. Recently MacFarlane *et al.* described an elegant and efficient method to extract, analyze and recover azo dyes using N,N-Butylmethylpyrrolidinium bis(trifluoromethylsulfonyl)imide as a hydrophobic ionic liquid.¹ Using only 2-3 extraction steps, 95% of two typical dyes could be recovered from water, all within 30 minutes. The dyes can be subsequently separated by washing with a small quantity of isopropanol/water so that the IL could be reused. The authors concluded that the cost of the IL is not a significant factor other than in the establishment stage. For further information do not hesitate to contact us at info@solvent-innovation.com

1) R. Vijayaraghavan, N. Vedaraman, M. Surianarayanan, D.R. MacFarlane, *Talanta*, **2006** (69), 1059-1062.

□ Solvent Innovation offers a special promotion offer on its ionic liquids during the summer!

We offer a **10% discount** to all our customers on all our ionic liquids (except our special offers) throughout this summer valid until August 31st for any order exceeding 500 Euro - just refer to this newsletter to obtain your discount!

Furthermore we welcome every participant of the **DFG-program** on ionic liquids to get in contact with us in order to discuss how they may profit from our services during the course of their research project. We are aware of the special needs required in your projects and will be happy to discuss any custom synthesis for special ionic liquids that are not reflected by our standard products.

Additionally we would like to stress again that we have significantly reduced our delivery times within the last year. Regular products from our standard portfolio are usually delivered to our customers within two (national) and five (international) business days!

□ Subscribe/Unsubscribe

We hope this message proved to be a good source of information regarding Ionic Liquids for you. If this is/ was the case, please forward it to your business friends. If, for any reason, you don't wish to receive any more newsletters from Solvent Innovation please reply mentioning subscribe/unsubscribe in the subject line.

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