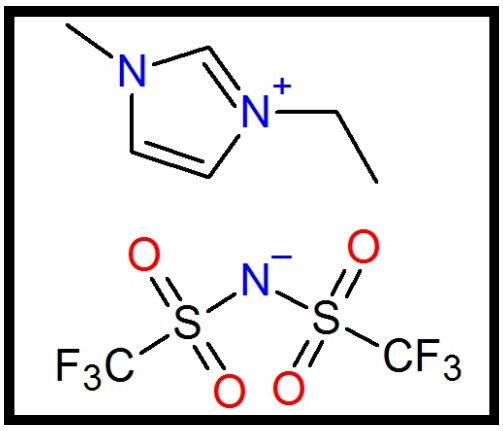
SOLVIONIC
POWERED BY INNOVATION

EMIM TFSI : A stable solvent for high temperature synthesis and electrosynthesis

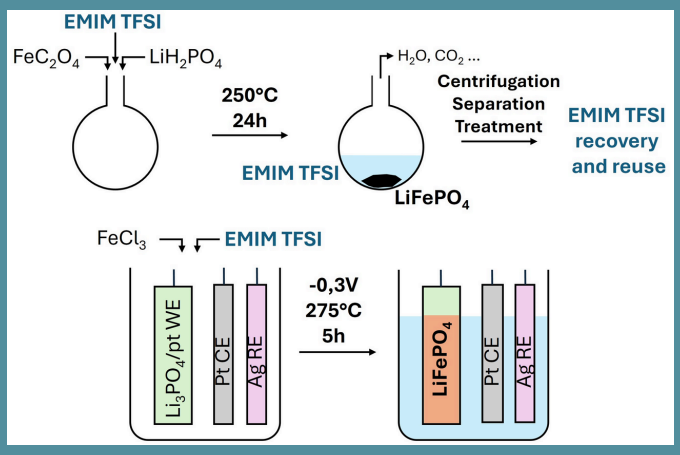
1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide
CAS : [174899-82-2]



Advantages

- High chemical stability (resistant to hydrolysis and oxidation)
- High thermal stablility (Degrades over 280°C)
- Can dissolve many organic and inorganic compounds
- Wide liquid range (melts at −20°C)
- No vapor pressure
- Strong absorption of microwave energy

ZOOM ON : SYNTHESIS OF HIGH VALUE AND TUNABLE LITHIUM AND SODIUM COMPOUNDS FOR ENERGY STORAGE DEVICES



Used for the production of $LiFePO_4$, a Li-ion battery cathode. Other salts produced include $LiMSO_4F$ (M = Fe, Co, Ni), Na_2MnPO_4F, $NaFeSO_4F$. → **Versatility**

Stable at high temperatures (>250°C), with an applied potential for electrochemical assistance and under microwave irradiation → **New opportunities for synthesis**

In some cases, EMIM TFSI can be recovered and reused → **Green and economical**

Crystalline structure of products can be modified by changing the anion or cation → **Tunable products**

Area of application : Synthesis, electrosyntheses and solvation

Product reference : IM0208A, click here

Packaging : From 50g to 1 ton per month

(1) N. Recham et al. Chemistry of Materials (2009), 21, 1096–1107
(2) J-M Tarascon et al. Patent WO2010046608A1 (2010)
(3) Y. Chen et al. Electrochemistry Communications (2011), 13 (7), 673-676
(4) Ashton et al. Journal of Materials Chemistry A, 2014, 2, 6238

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