

Supporting information Figure Captions:

S.Fig.1 ^1H NMR spectrum of $[\text{EimCH}_2\text{CONHBu}]\text{Cl}$

S.Fig.2 ^{13}C NMR spectrum of $[\text{EimCH}_2\text{CONHBu}]\text{NTf}_2$

S.Fig.3 ^1H NMR spectrum of $[\text{EimCH}_2\text{CONHBu}]\text{NTf}_2$

S.Fig.4 ^1H NMR spectrum of Recycled $[\text{EimCH}_2\text{CONHBu}]\text{NTf}_2$

S.Fig.1

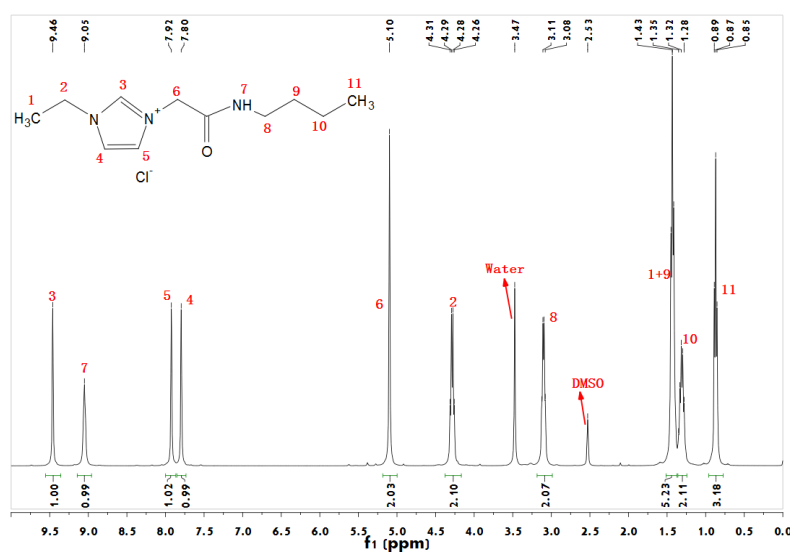


Fig.1 ^1H NMR spectrum of $[\text{EimCH}_2\text{CONHBu}]\text{Cl}$

S.Fig.2

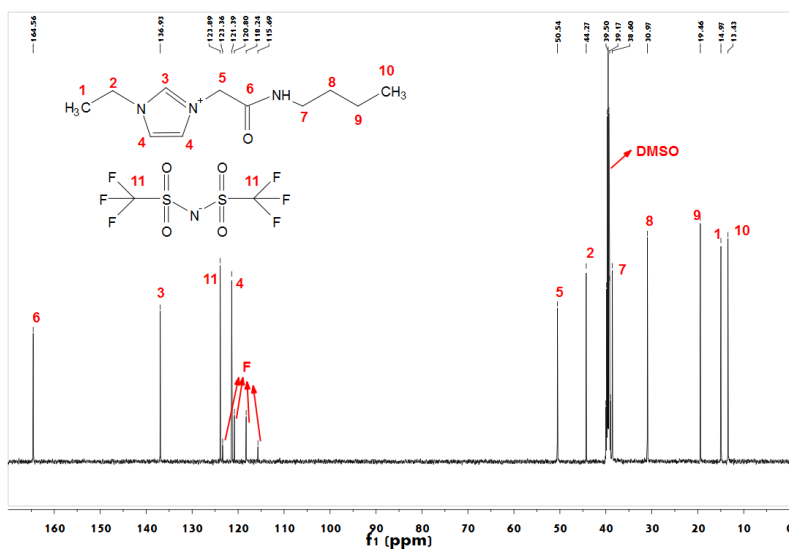


Fig.2 ¹³C NMR spectrum of [EimCH₂CONHBu]NTf₂

S.Fig.3

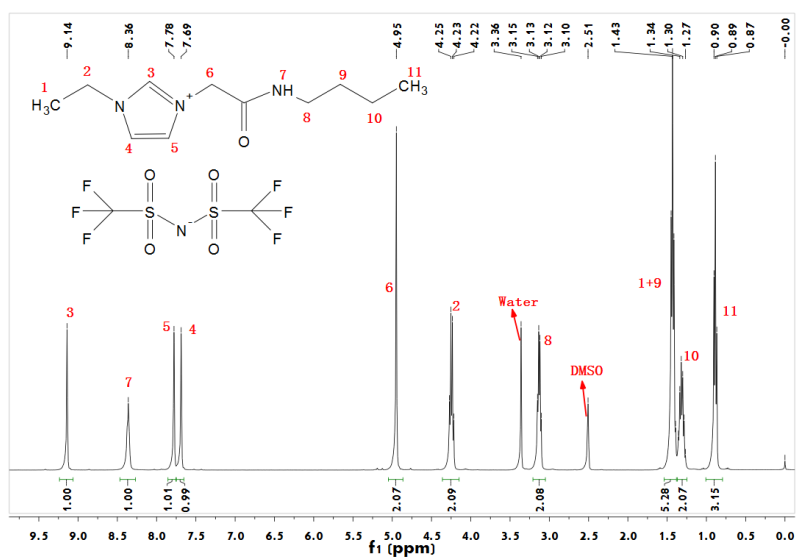


Fig.3 ^1H NMR spectrum of $[\text{EimCH}_2\text{CONHBU}]\text{NTf}_2$

S.Fig.4

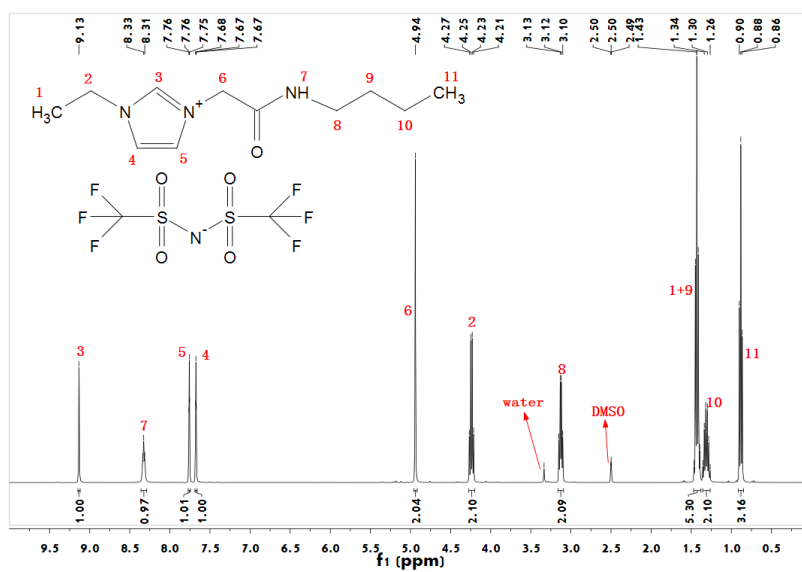


Fig.4 ^1H NMR spectrum of Recycled $[\text{EimCH}_2\text{CONHBu}]\text{NTf}_2$