

## **ELECTRONIC SUPPLEMENTARY INFORMATION**

### **Self-aggregation of ionic liquids: micelle formation in aqueous solution**

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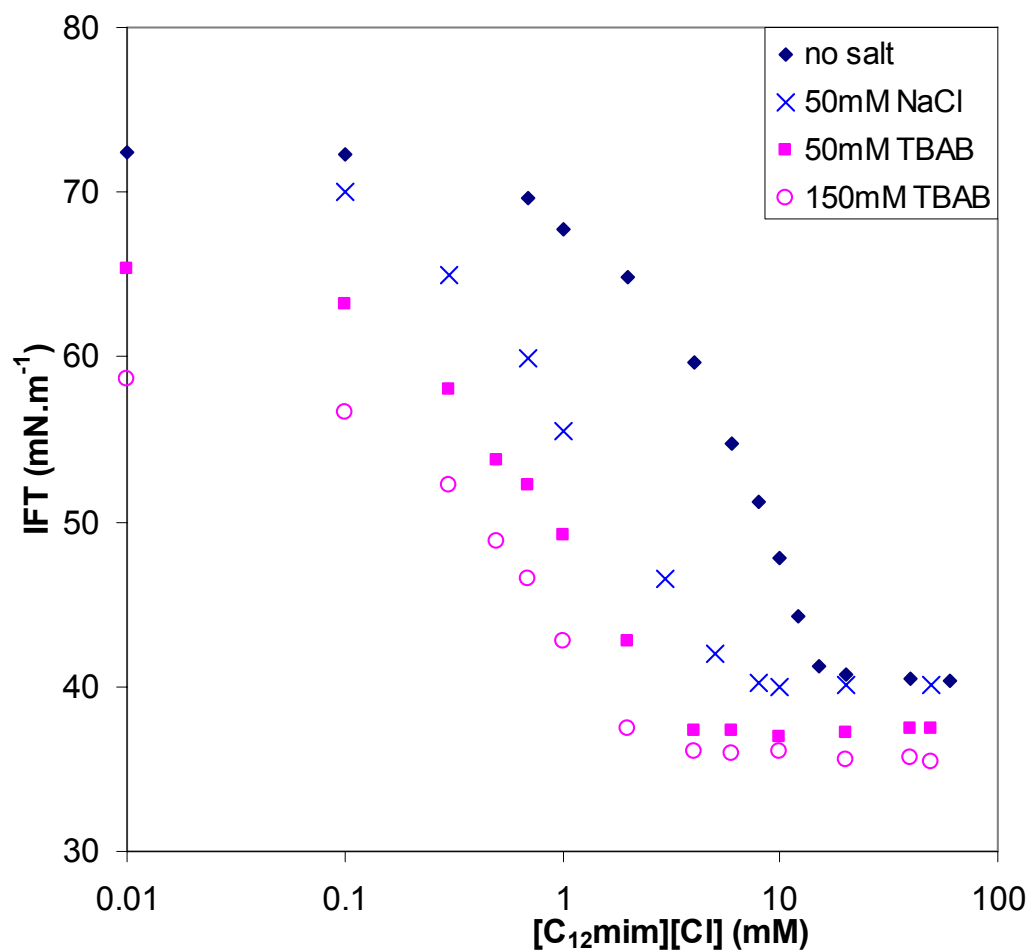


Figure S1 – Salt type effect on the CMC of  $[C_{12}mim]Cl$  by IFT. NaCl versus  $[N_{4444}]Br$  (TBAB).

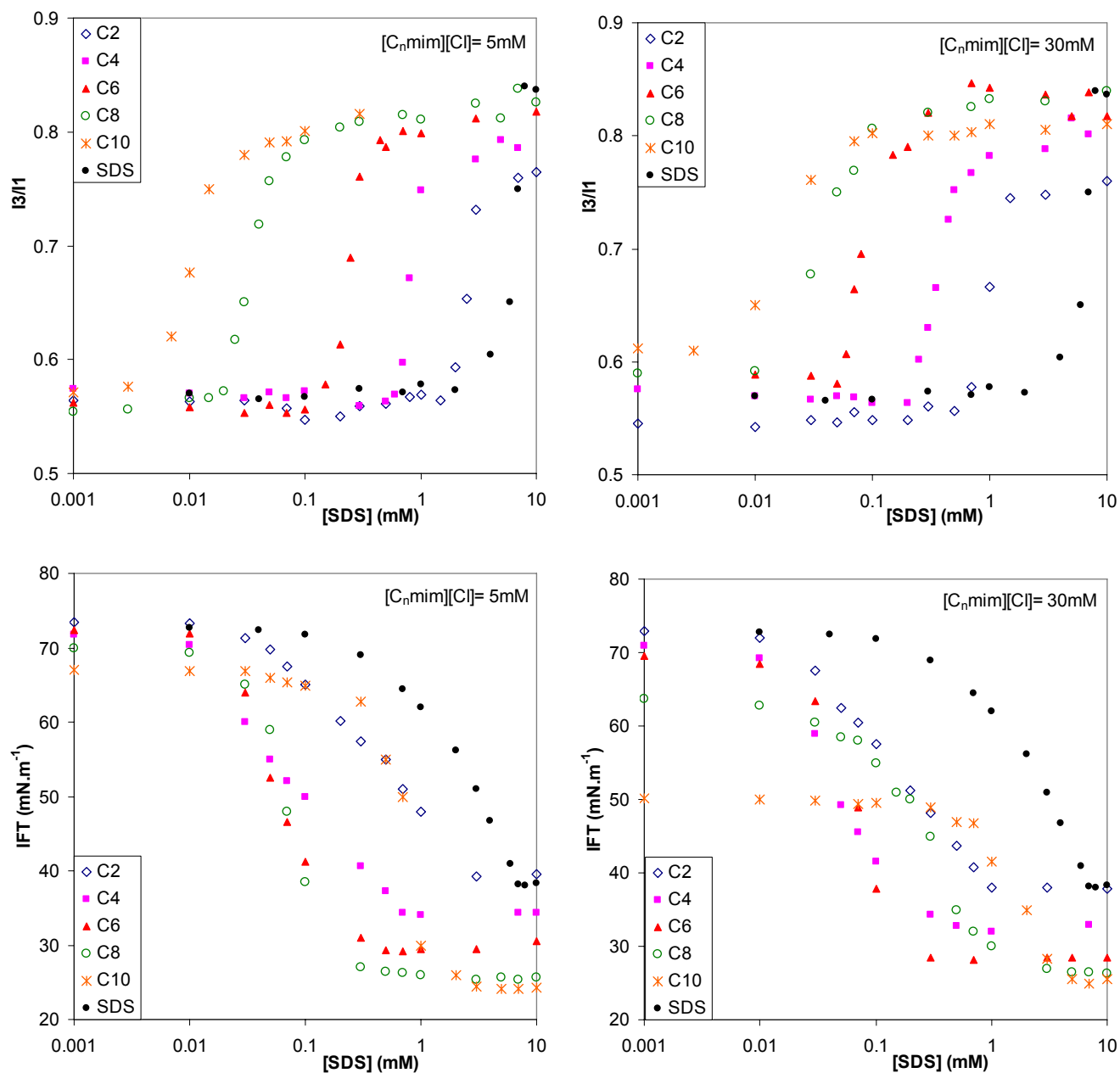


Figure S2 –  $[C_n \text{mim}][Cl]$  effect on the SDS aggregation monitored by the IFT and fluorescence techniques (plots similar to those illustrated as Figure 4 of the main text for different IL concentration).

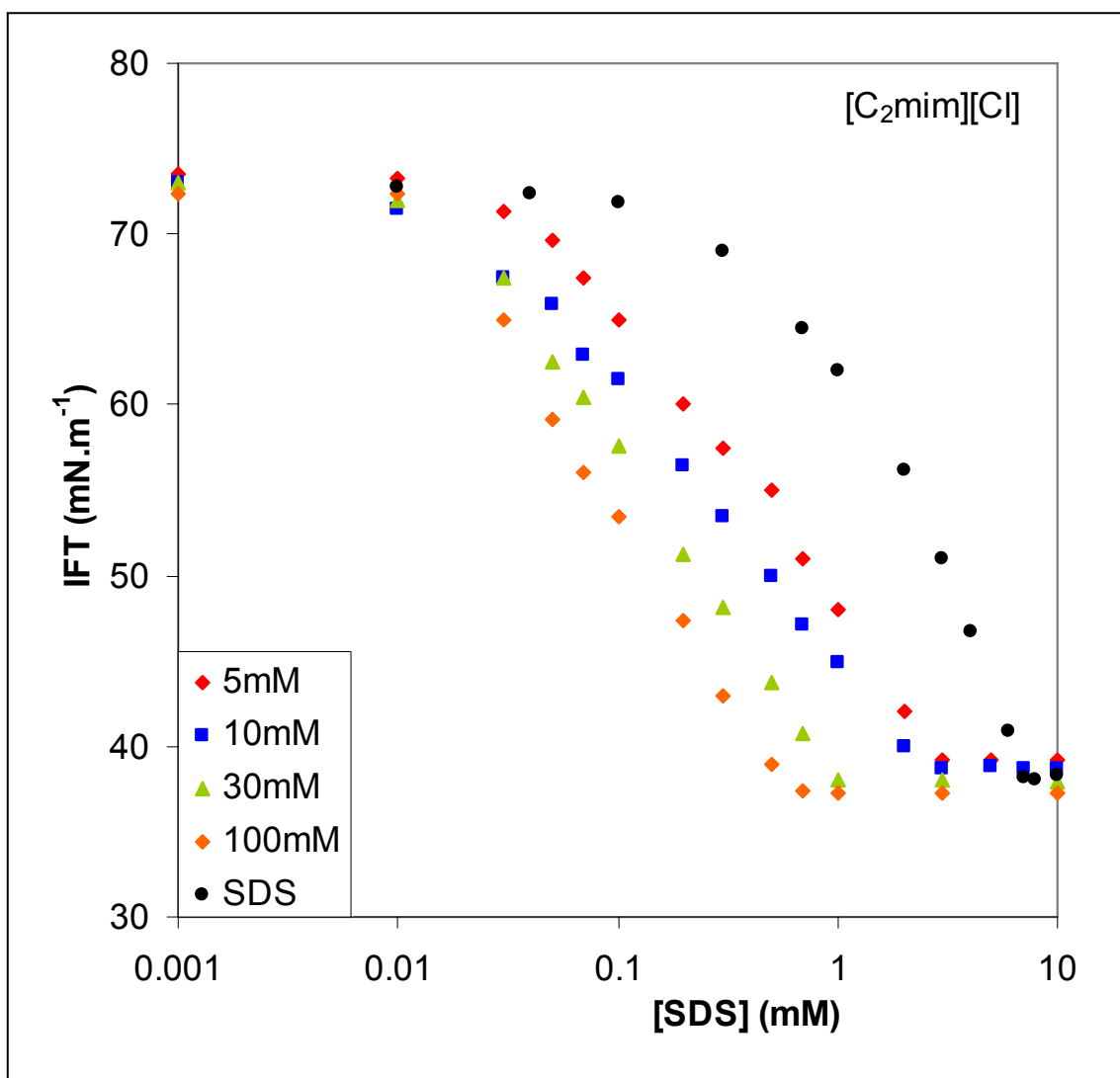


Figure S3 – Concentration effect of [C<sub>2</sub>mim]Cl measured by IFT.

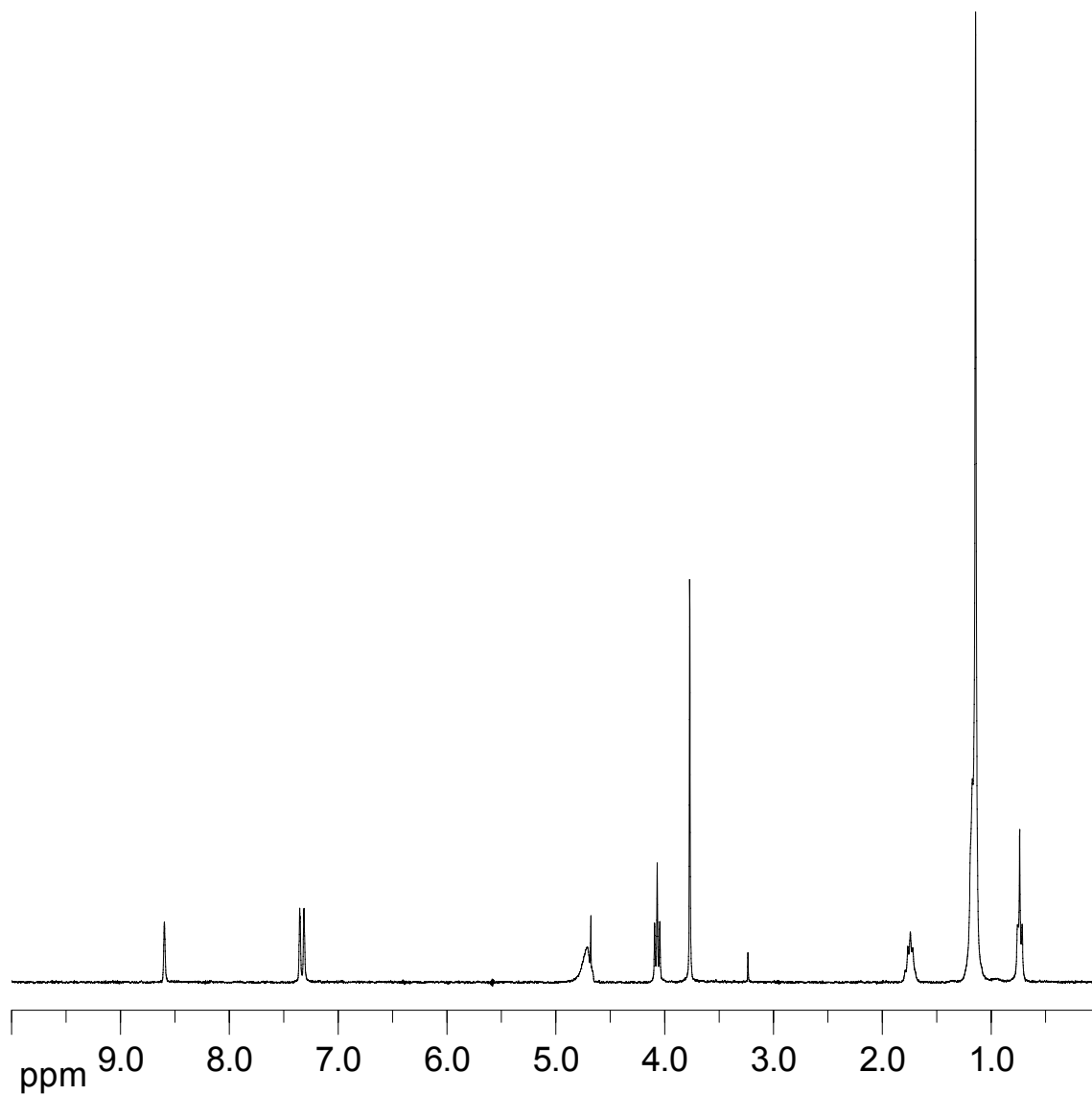


Figure S4 –  $^1\text{H}$  NMR spectrum of an aqueous solution of  $[\text{C}_{12}\text{mim}]\text{Cl}$  (conc. 12 mM).