

Supplementary Information

Electron Donor Ionic Liquids entrapped in Anionic and Cationic Reverse Micelles.

Effect of the Interface on the Ionic Liquid –Surfactant Interactions

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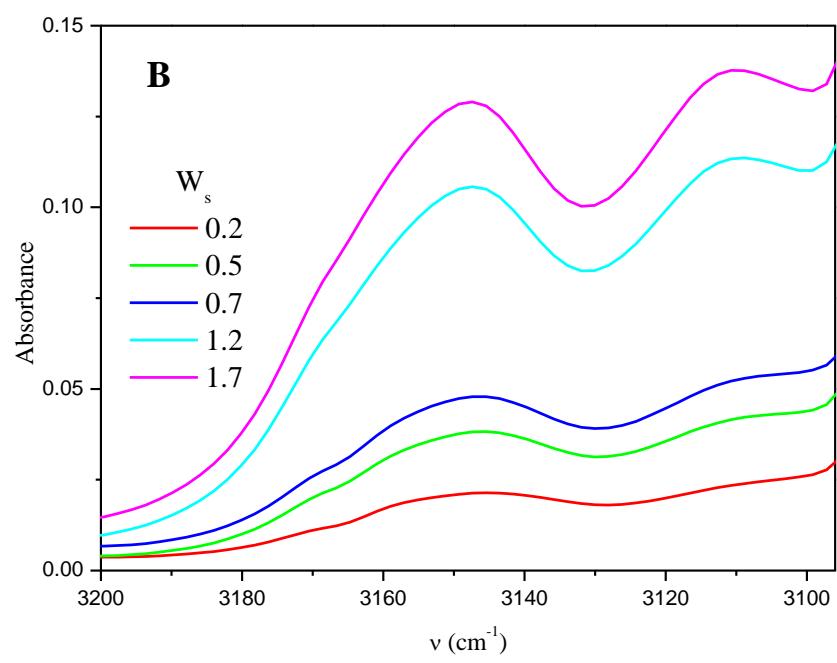
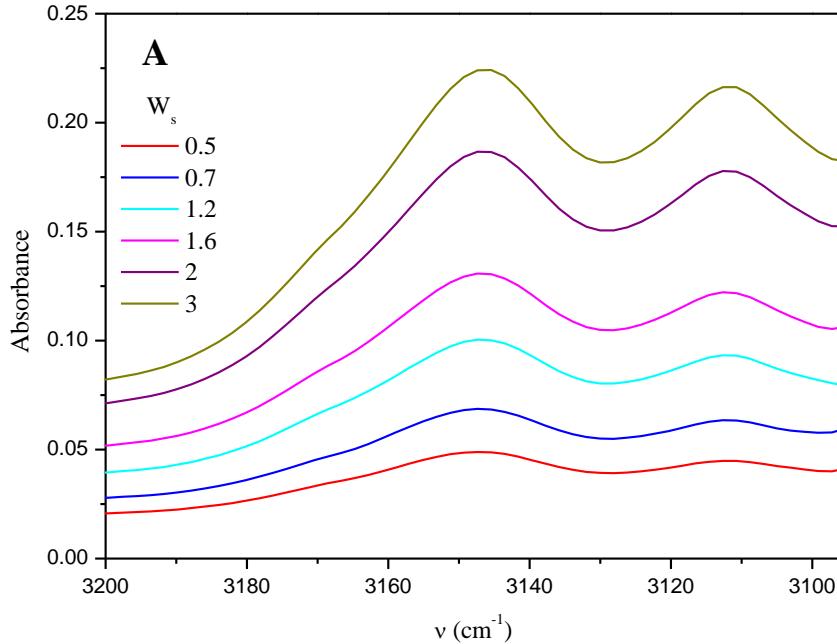
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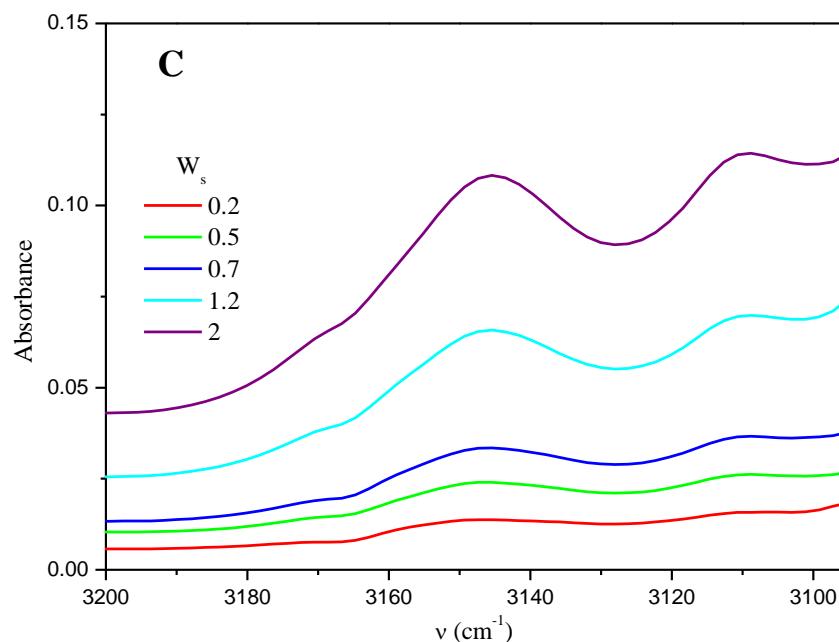


Figure S1. FT-IR spectra of ILs entrapped in chlorobenzene/surfactant RMs at different W_s values, in the region of 3100-3200 cm^{-1} . A) bmimTfA in AOT RMs, B) bmimTfO in BHDC RMs and C) bmimTfA in BHDC RMs. [Surfactant] = 0.02 M. The chlorobenzene bands have been subtracted.

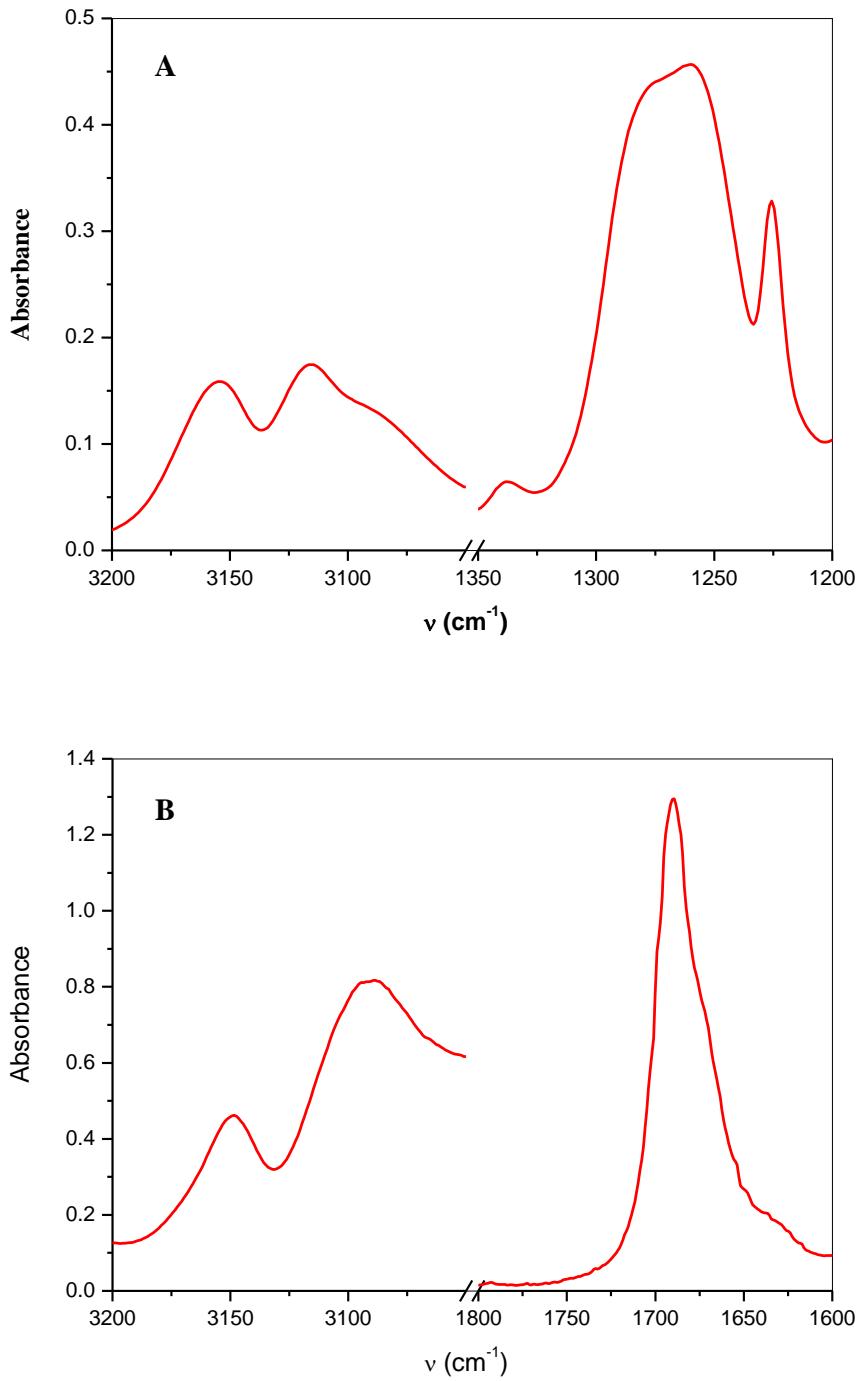


Figure S2. FT-IR spectrum of neat bmimTfO (A) and neat bmimTfA (B).

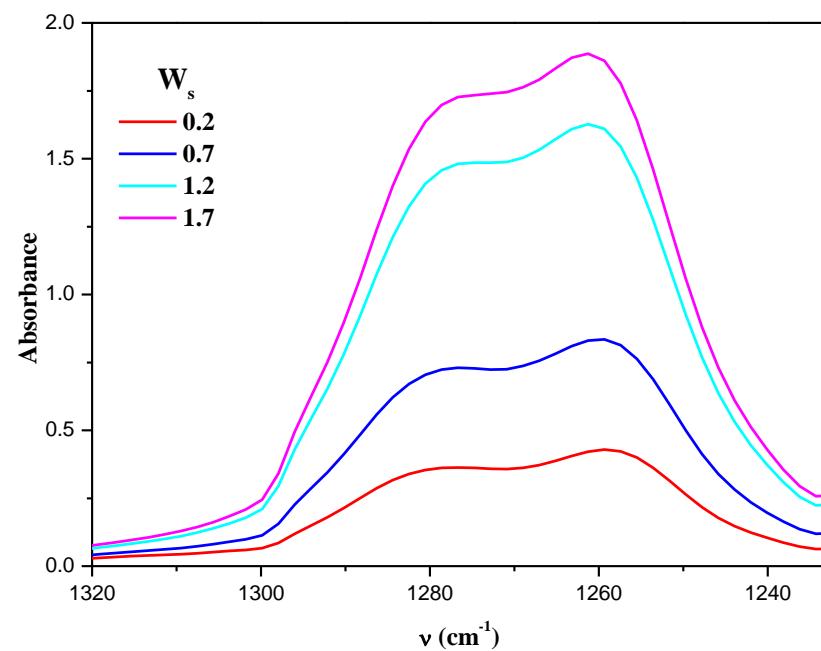


Figure S3. FT-IR spectra of bmimTfO entrapped in chlorobenzene/BHDC RMs at different W_s values, in the region of $1320\text{--}1230 \text{ cm}^{-1}$. $[\text{BHDC}] = 0.02 \text{ M}$. The chlorobenzene bands have been subtracted.

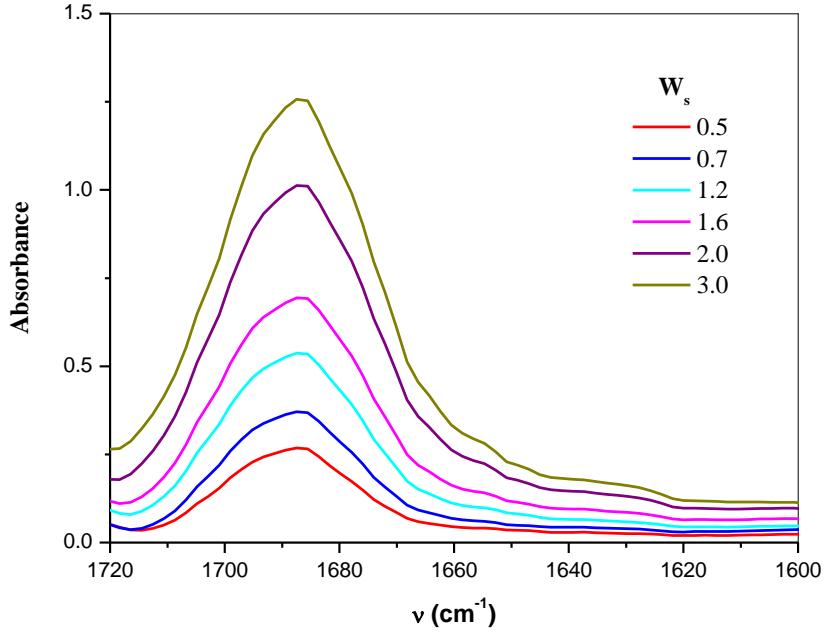


Figure S4. FT-IR spectra of bmimTfA entrapped in chlorobenzene/AOT RMs at different W_s value, in the region of 1720-1600 cm^{-1} (TfA's $\nu_{\text{asym}}\text{COO}^-$). [AOT] = 0.02 M. The chlorobenzene and AOT bands have been subtracted.