Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics

Supplementary Information

The Effect of Different Interfaces and Confinement on the Structure of the Ionic Liquid 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide Entrapped in Cationic and Anionic Reverse Micelles.

Darío D. Ferreyra, N. Mariano Correa, Juana J. Silber, R. Darío Falcone*

[*] Dr. R. Darío Falcone. Corresponding-Author,

Departamento de Química. Universidad Nacional de Río Cuarto. Agencia Postal # 3.

C.P. X5804BYA Río Cuarto. ARGENTINA

E-mail: rfalcone@exa.unrc.edu.ar

Darío D. Ferreyra, Dr. N. Mariano Correa, Prof. Juana J. Silber,

Departamento de Química. Universidad Nacional de Río Cuarto. Agencia Postal # 3.

C.P. X5804BYA Río Cuarto. ARGENTINA

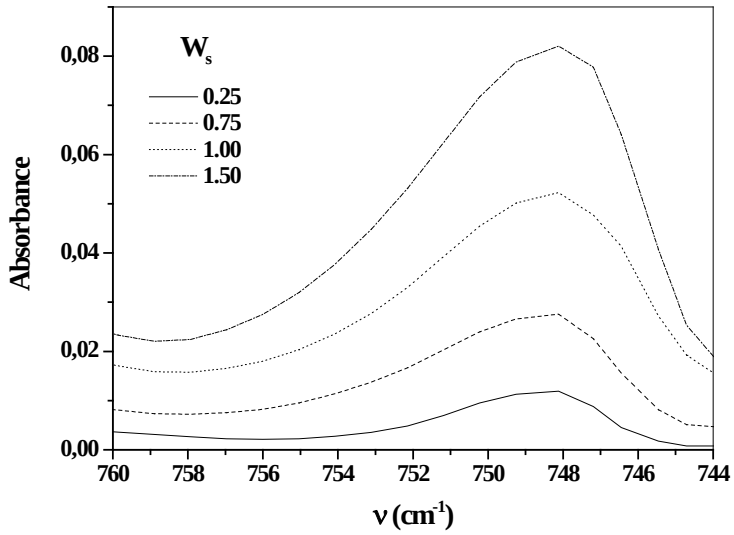

Figure S1. FT-IR spectra of [bmim][Tf_2N] inside AOT/chlorobenzene RMs at different W_s values, in the region of 760-740 cm^{-1} ($\nu^s_{S\text{-}N\text{-}S}$). [AOT] = 0.1 M. The chlorobenzene bands have been subtracted. IR Path length cell = 0.015 mm.

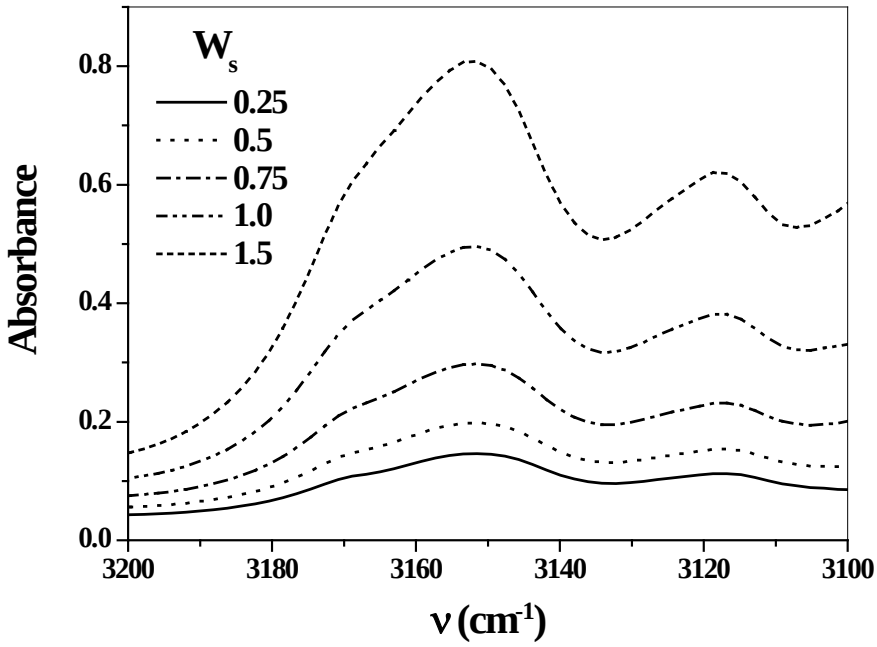

Figure S2. FT-IR spectra of [bmim][Tf_2N] inside AOT/chlorobenzene RMs at different W_s values, in the region of 3100-3200 cm^{-1}. [AOT] = 0.1 M. The chlorobenzene bands have been subtracted. IR Path length cell = 0.5 mm.