

Supporting Information

Highly stable aqueous foams generated by fumed silica particles hydrophobised *in situ* with a quaternary ammonium gemini surfactant†

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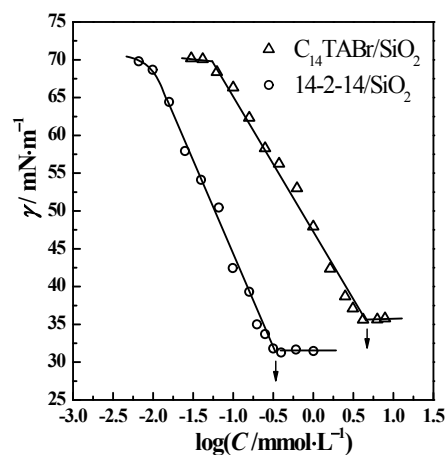


Fig. S1 Semi-logarithmic plots of surface tension (γ) as a function of surfactant concentration for the aqueous solution of 14-2-14 (\circ) and C_{14}TABr

(\triangle) in the presence of 0.05wt% F- SiO_2 at 25 °C, in which the critical micelle concentration (cmc) was obtained for each case as shown by arrow.

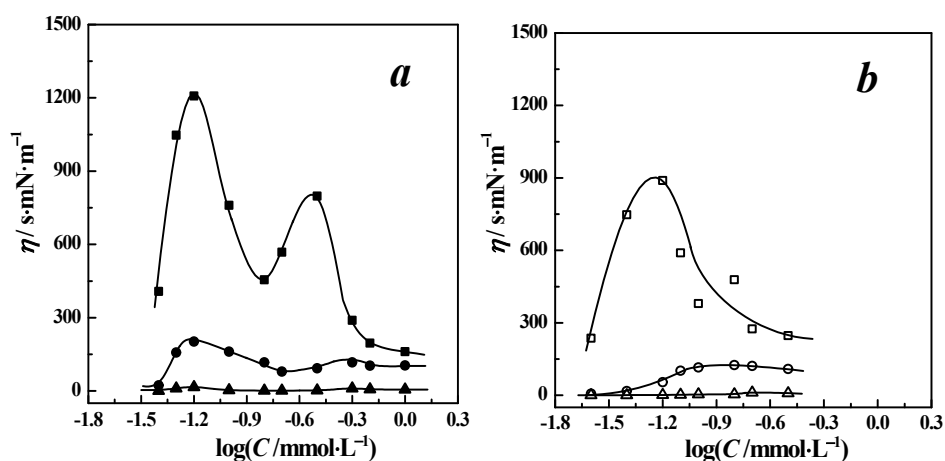


Fig. S2 Semi-logarithmic plots of dilational interfacial viscosity (η) for 14-2-14/F- SiO_2 (a) and 14-2-14 (b) as a function of 14-2-14 concentration at

25 °C. Symbols representation: $\nu/\text{Hz} = 0.01$ (squares), 0.10(circles), and 1.00 (triangles).