

Supplementary Materials: Effect of $[\text{Zr}(\alpha\text{-PW}_{11}\text{O}_{39})_2]^{10-}$ Polyoxometalate on the Self-Assembly of Surfactant Molecules in Water Studied by Fluorescence and DOSY NMR Spectroscopy

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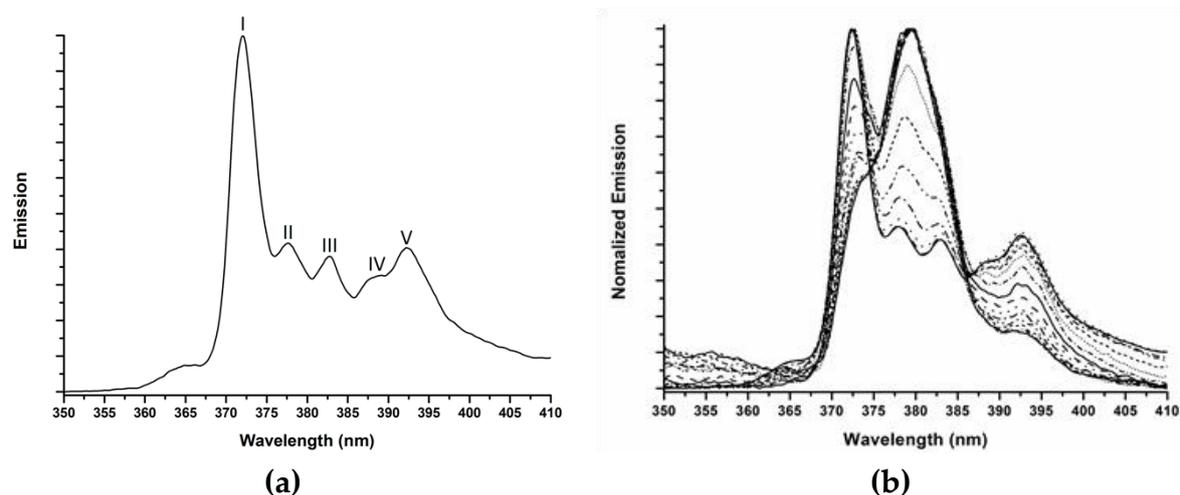


Figure S1. The emission spectra of: (a) saturated aqueous pyrene solution ($2\text{--}3\ \mu\text{M}$) buffered at pH 7.4 by a 10 mM sodium phosphate solution. The vibronic peaks which are situated at 372, 378, 283, 389 and 392 nm are labeled I, II, III, IV and IV, respectively; (b) The normalized emission of a saturated pyrene solution ($2\text{--}3\ \mu\text{M}$) buffered at pH 7.4 by a 10 mM sodium phosphate solution in the presence of increasing concentrations of Zw3-12. Notice the coalescence of peak II and III and peak IV and V.

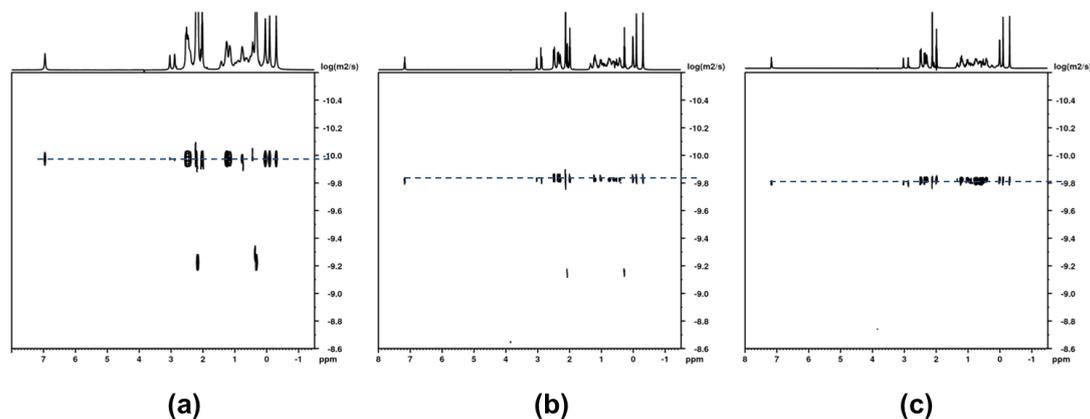


Figure S2. ^1H DOSY spectra of: (a) CHAPS/1 mixture; (b) CHAPS/ $\text{Et}_2\text{NH}_2\text{Cl}$ mixture; (c) CHAPS.

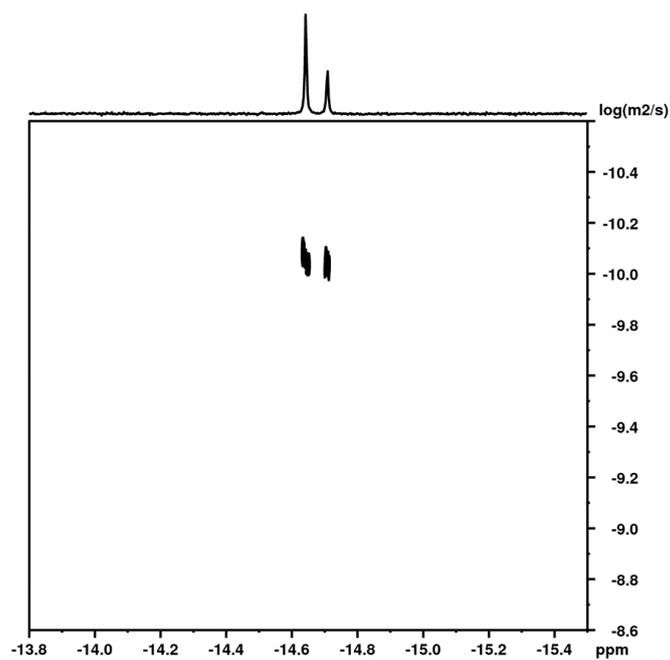


Figure S3. CHAPS/1—³¹P DOSY.

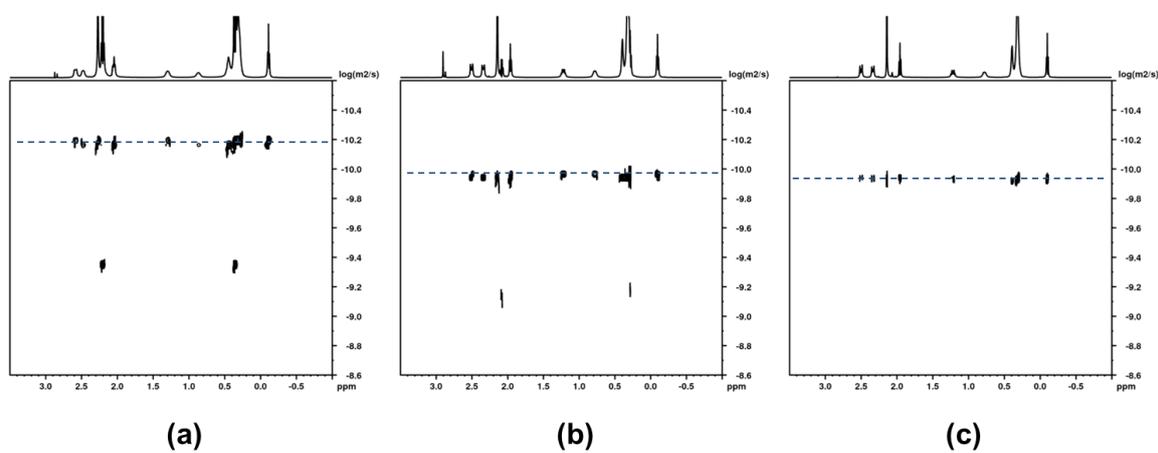


Figure S4. ¹H DOSY spectra of: (a) Zw3-12/1 mixture; (b) Zw3-12/Et₂NH₂Cl mixture; (c) Zw3-12.

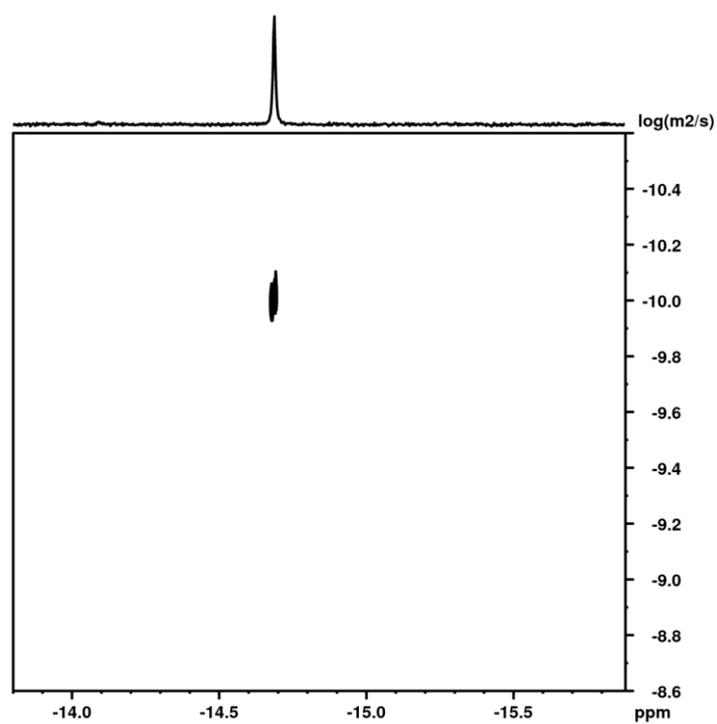


Figure S5. Zw3-12/1 mixture—³¹P DOSY.

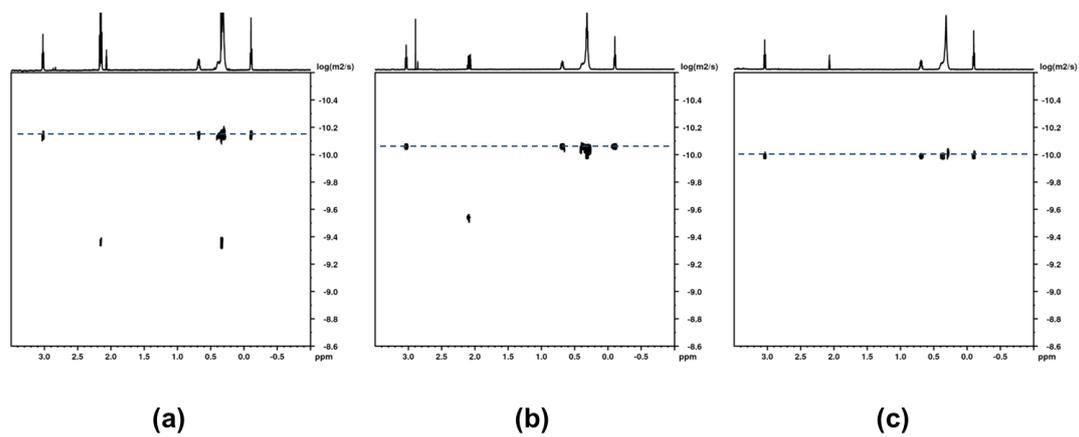


Figure S6. ¹H DOSY spectra of: (a) SDS/1 mixture; (b) SDS/Et₂NH₂Cl mixture; (c) SDS.

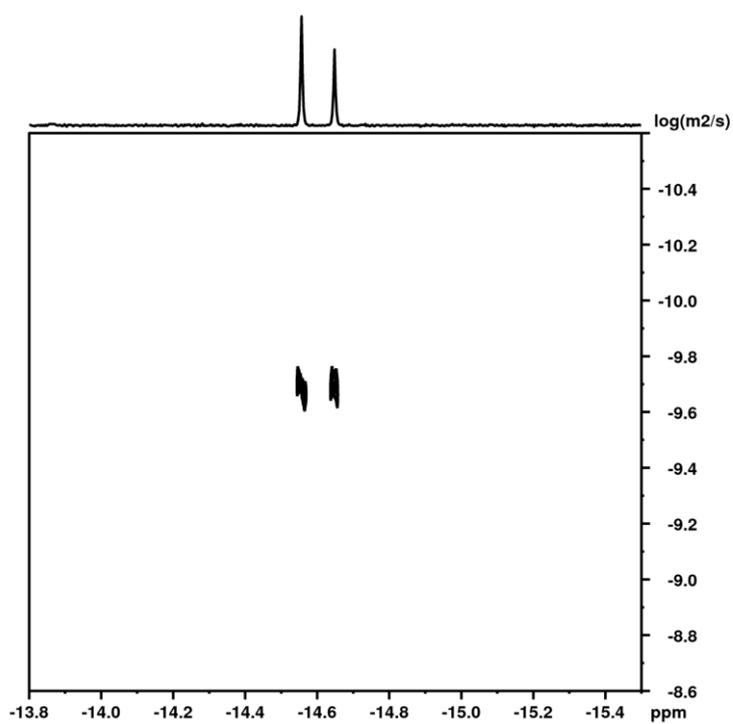


Figure S7. SDS/1 mixture— ^{31}P DOSY.

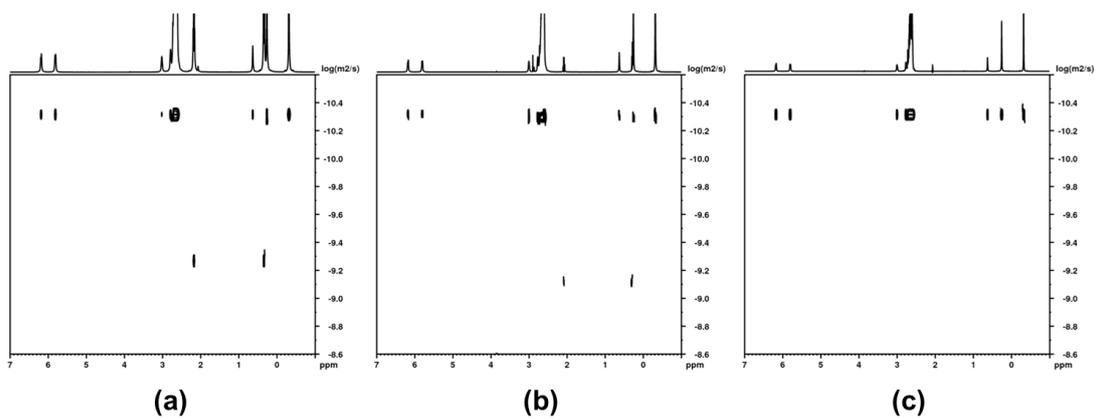


Figure S8. ^1H DOSY spectra of: (a) TX100/1 mixture; (b) TX100/ $\text{Et}_2\text{NH}_2\text{Cl}$ mixture; (c) TX100.

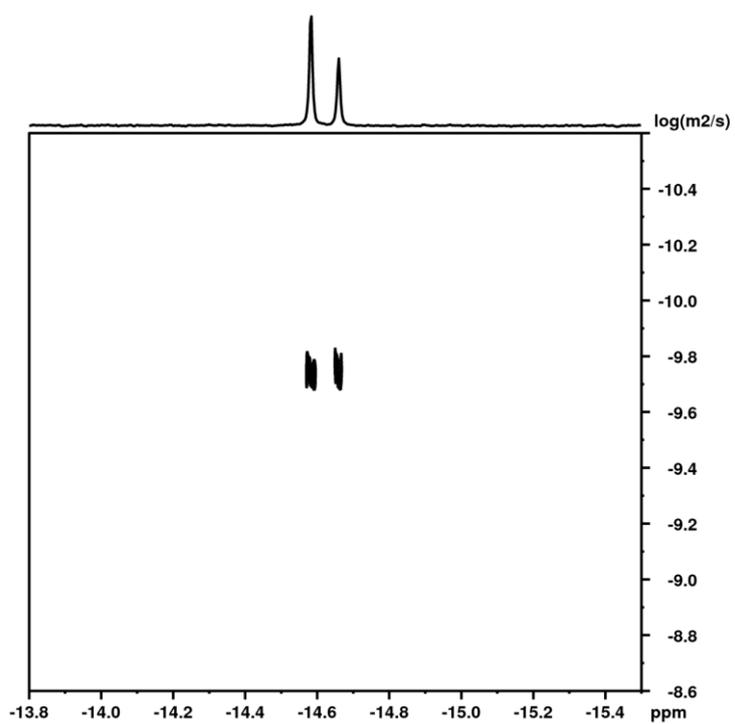


Figure S9. TX100/1 mixture—³¹P DOSY.

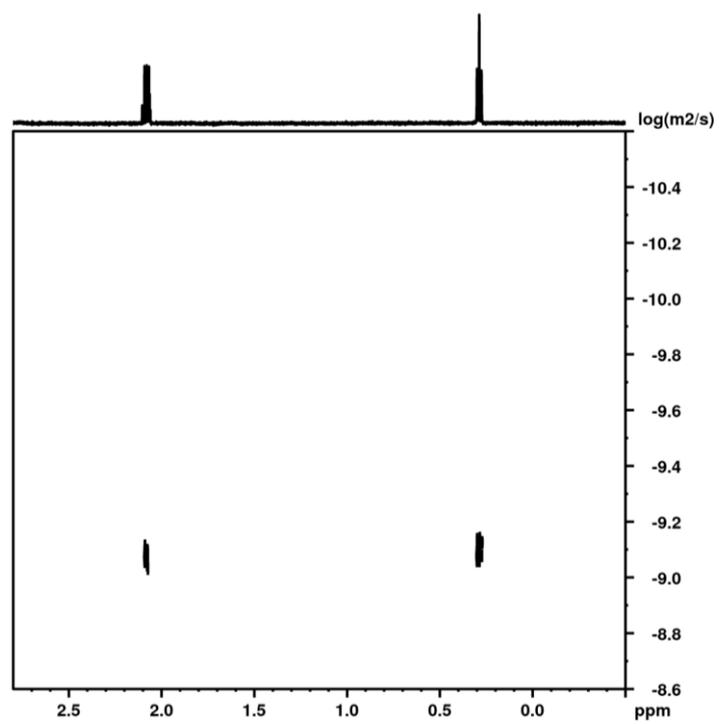
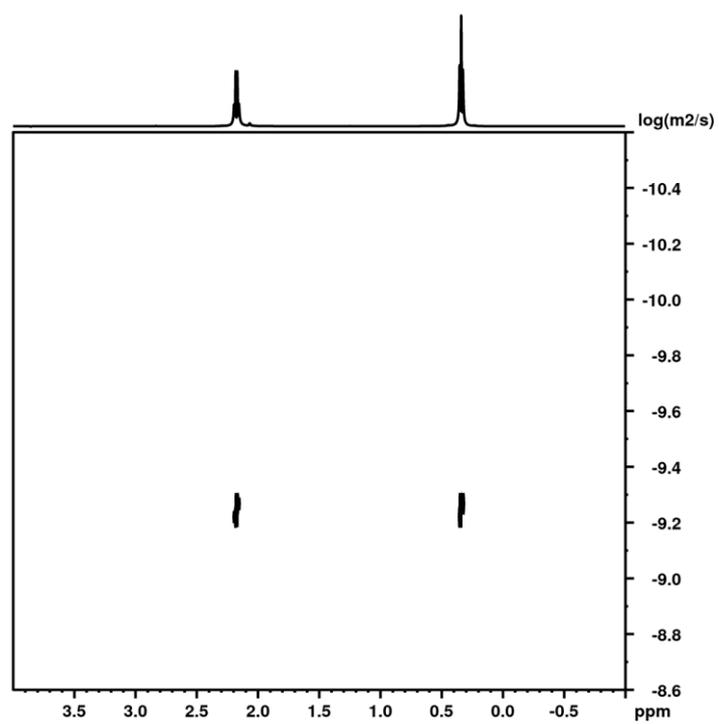
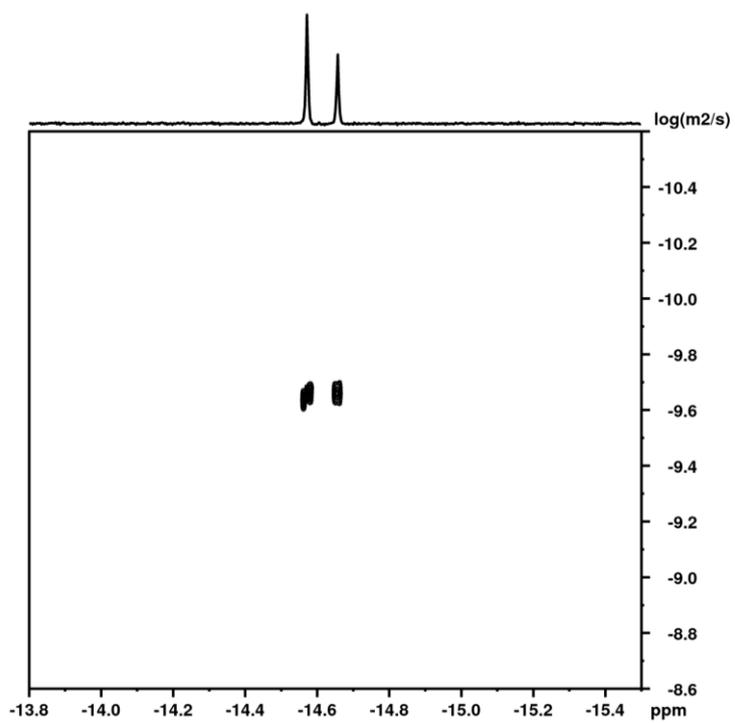


Figure S10. ¹H DOSY Et₂NH₂Cl.

Figure S11. ¹H DOSY of 1.Figure S12. ³¹P DOSY of 1.