

Concentration and thermo dual-responsive between wormlike micelle and hydrogels transition in $[C_{16}imC_9]Br$ aqueous solution without additives

Yimin Hu, Lingling Ge, Jie Han* and Rong Guo*

Supporting information

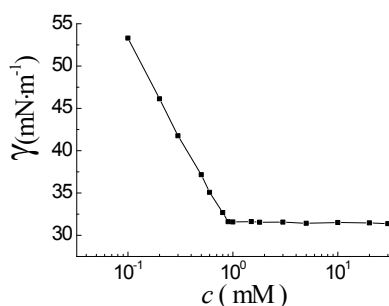


Fig.S1 Surface tension isotherms of $[C_{16}imC_9]Br$ surfactant. The error of surface tension value is ± 0.2 mN/m.

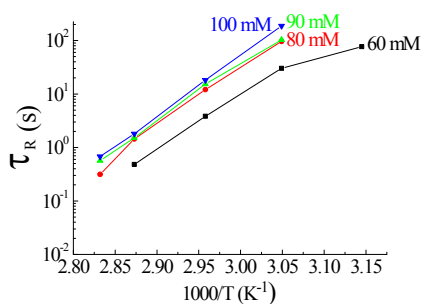


Fig. S2 Arrhenius dependence of the main relaxation time ($\tau_R = 1/\omega_c$) of different $[C_{16}imC_9]Br$ aqueous solutions with absolute temperature.

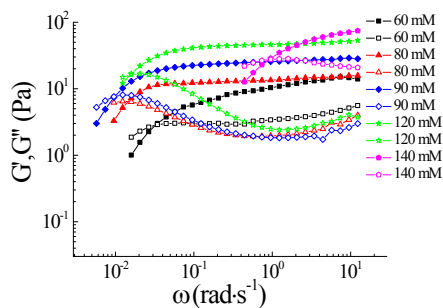


Fig. S3 G' (filled symbols) and G'' (unfilled symbols) versus frequency for $[C_{16}imC_9]Br$ aqueous solution in different weight fraction concentration at 55 °C.