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

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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 (\( \tau_c = 1/\omega_c \)) 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.