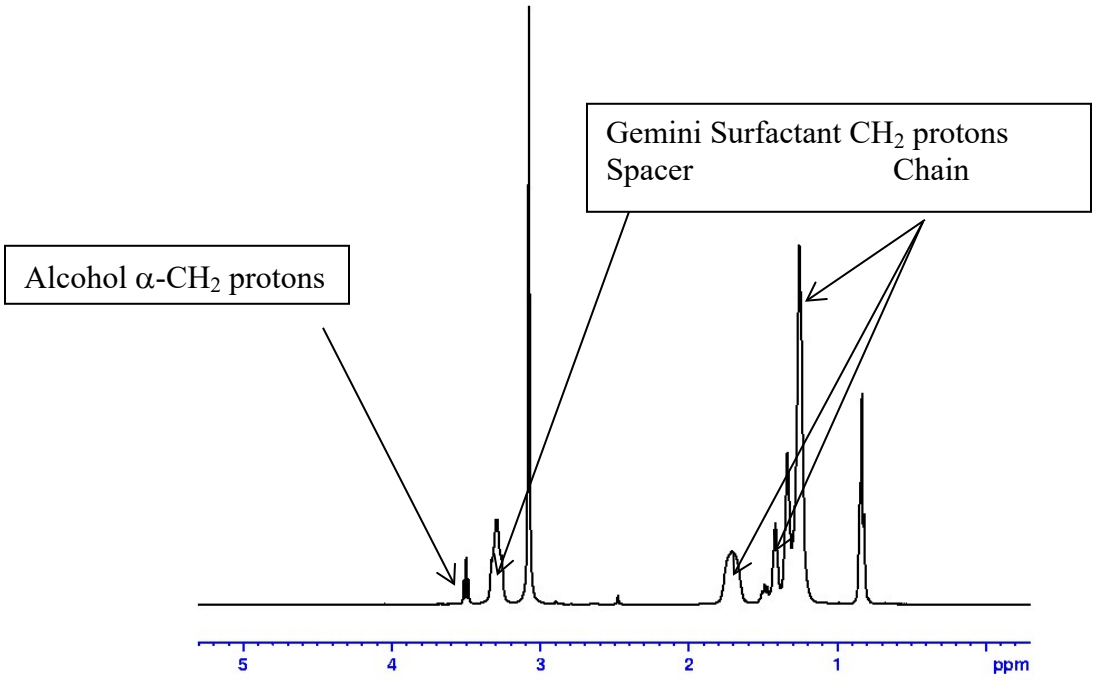

Figure S1 – ^{1}H NMR spectrum for the system 6 μL C_4OH in 50 mg/mL 10-6-10 Gemini surfactant. The α-CH_2 protons used to determine the alcohol diffusion coefficient in the aggregated system are indicated on the Figure.

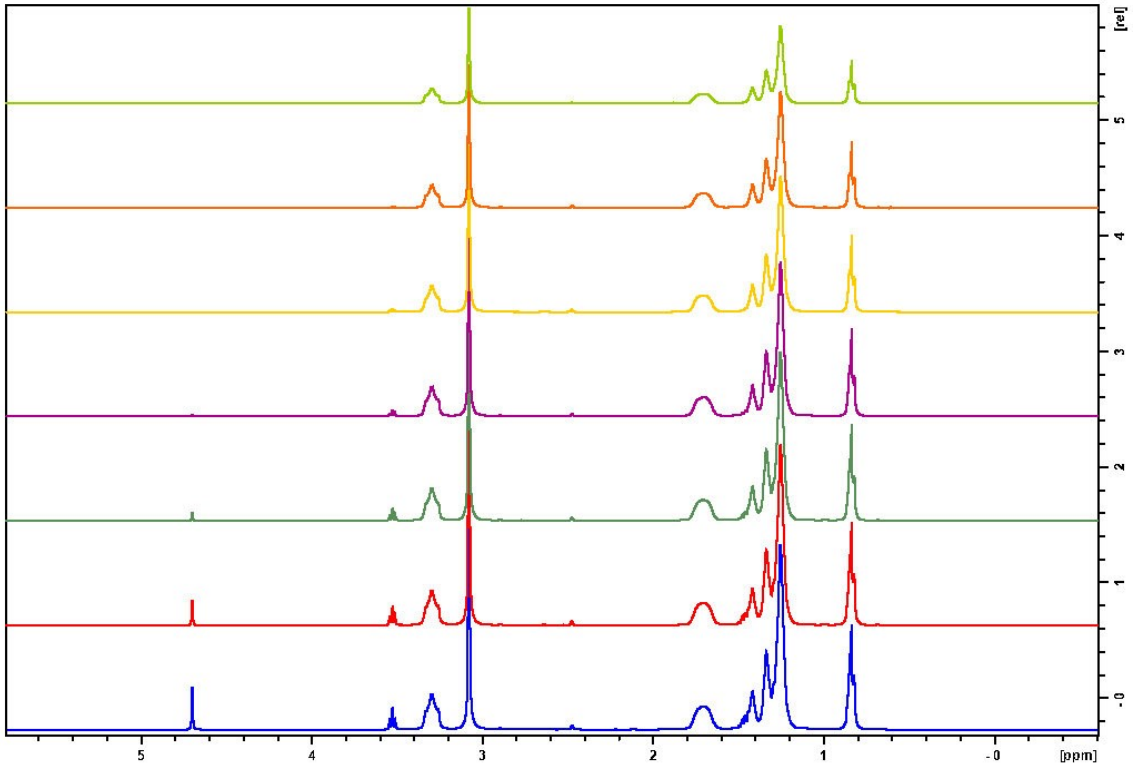

Figure S2 – Stacked plot for the system 6 μL C_4OH in 50 mg/mL 10-6-10 gemini surfactant. The variation in the D values of the components in the mixture are readily apparent from the differential attenuation of the water peak (4.70 ppm), the alcohol protons (the α-CH_2 protons at ~3.5 ppm), and surfactant resonances.