Electronic Supplementary Material (ESI) for Soft Matter.

Supporting Information

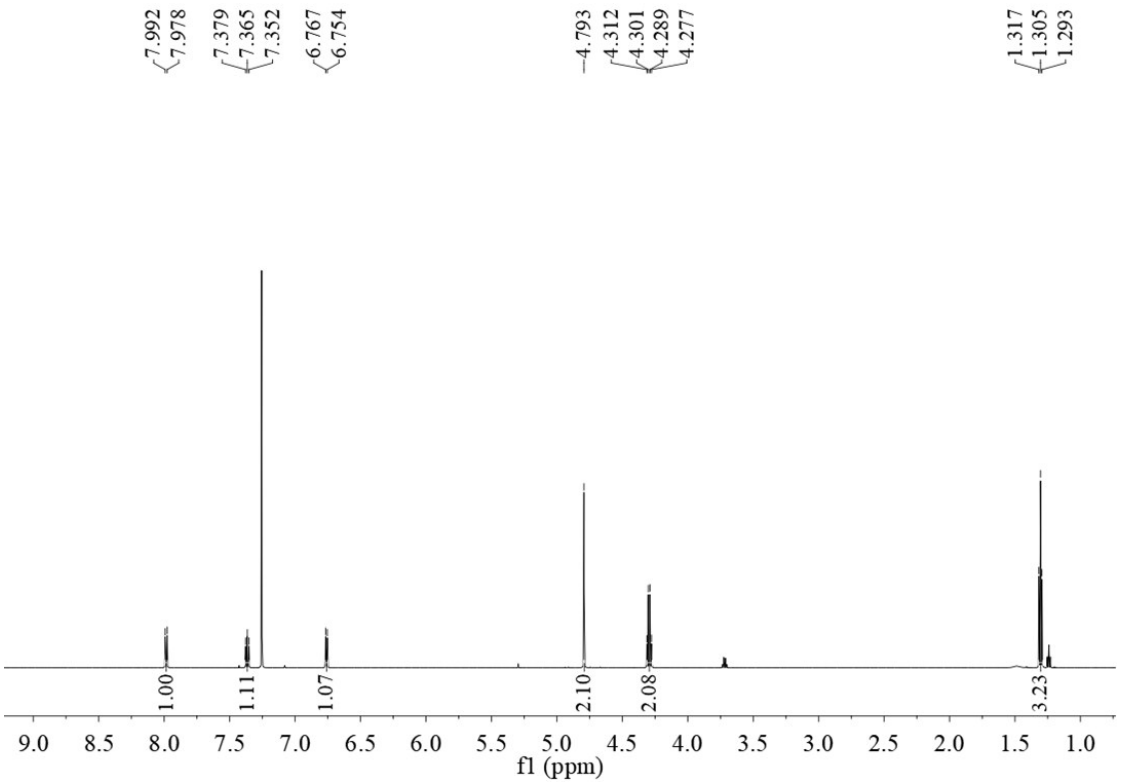

Fig. S1 ^{1}H NMR spectrum of Compound 1

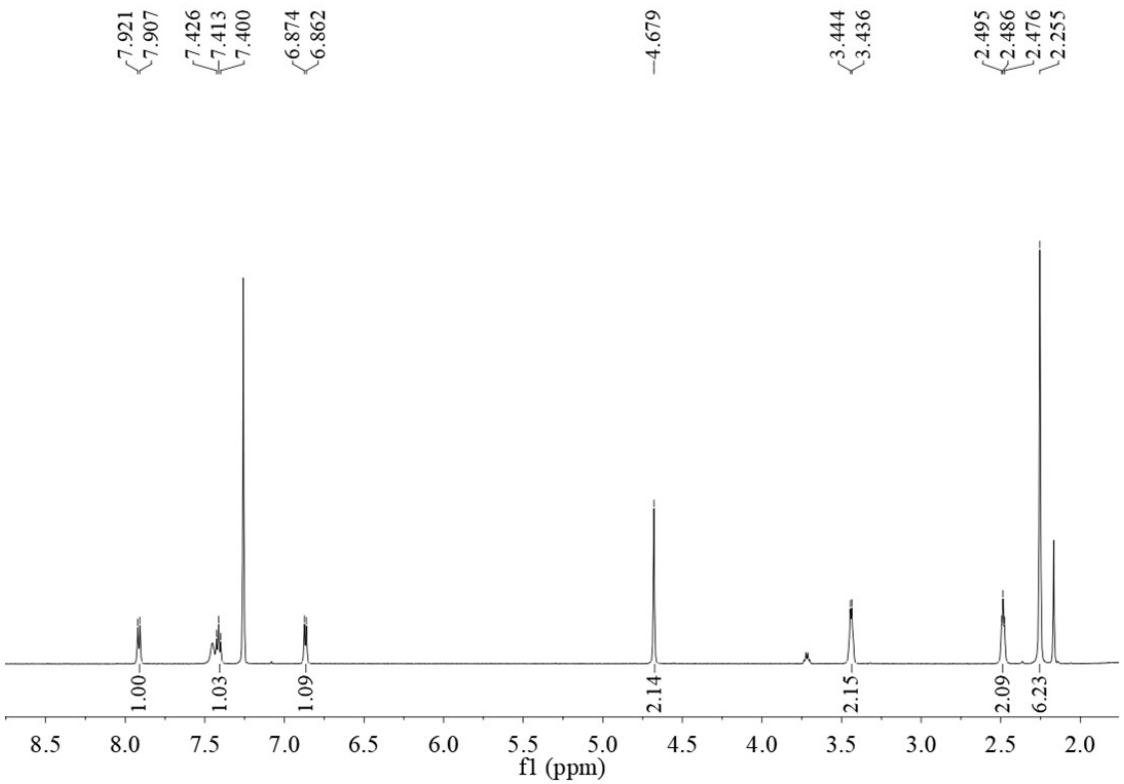

Fig. S2 ^{1}H NMR spectrum of Compound 2

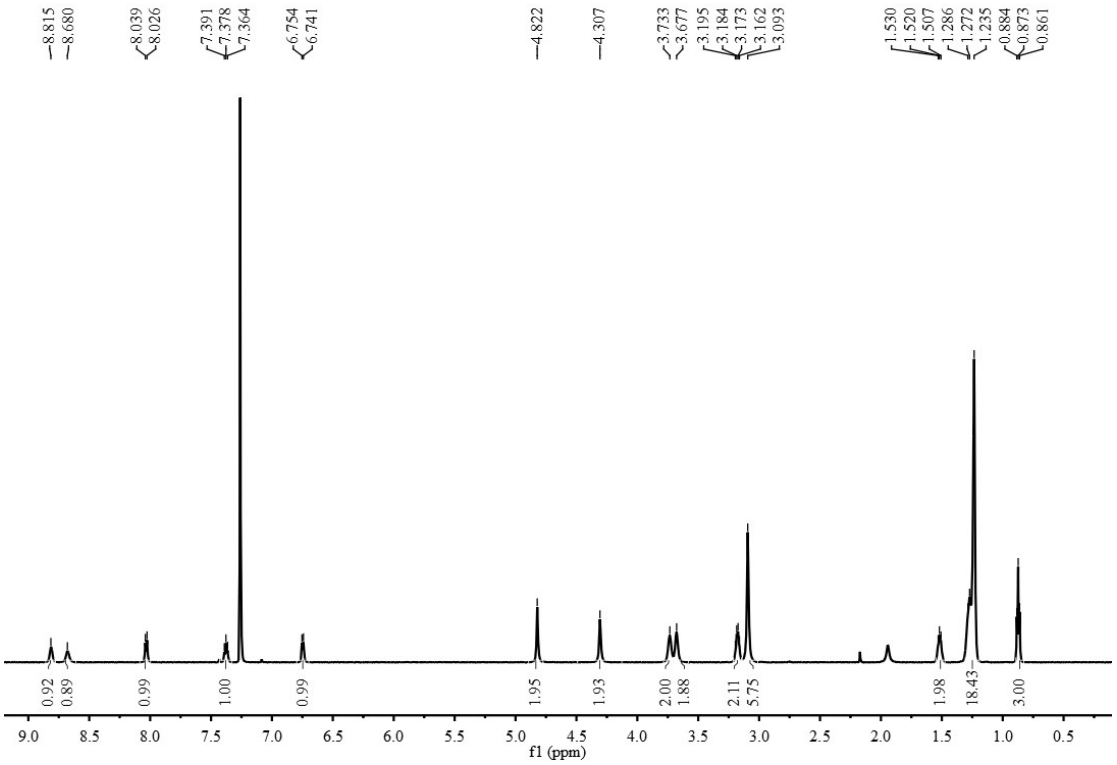

Fig. S3 ^{1}H NMR spectrum of C_{12}NDDA

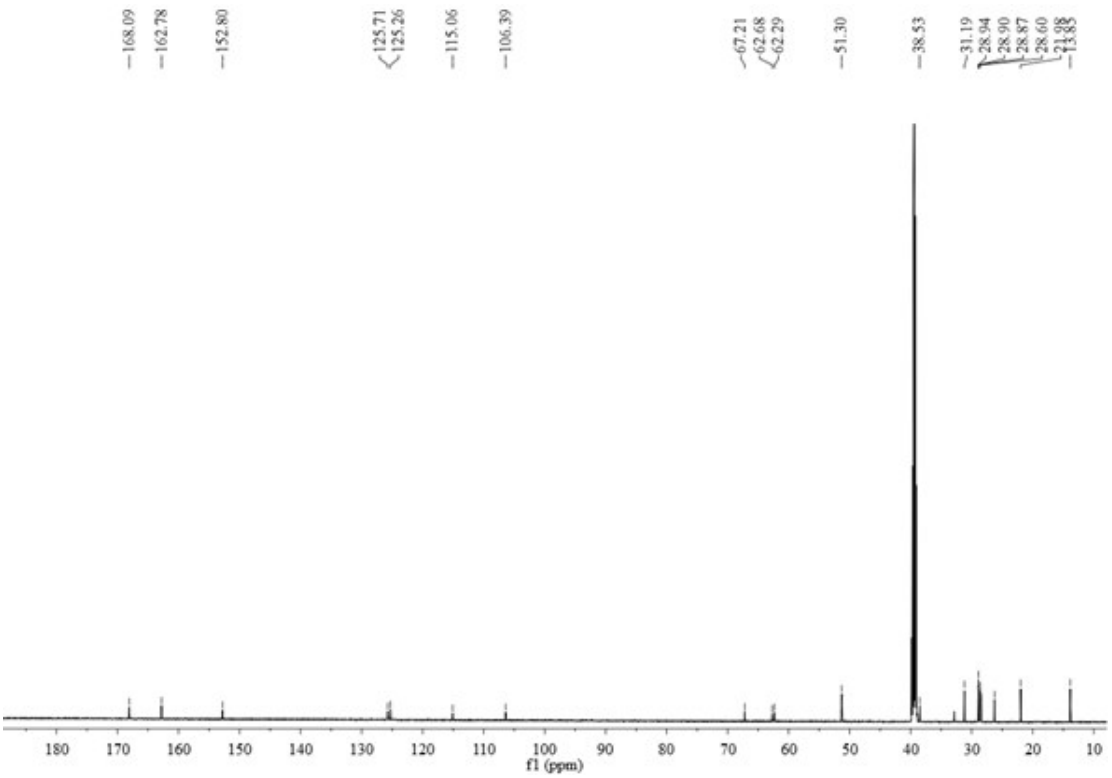

Fig. S4 ^{13}C NMR spectrum of C_{12}NDDA

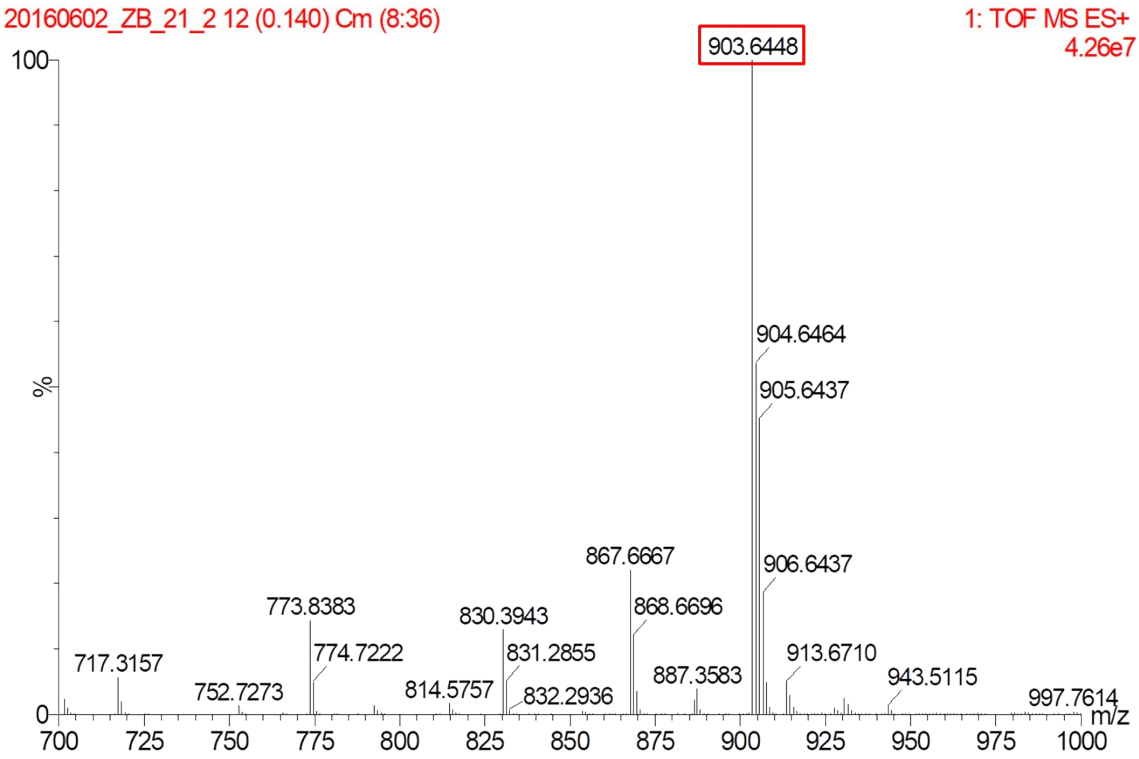

Fig. S5 ESI-MS spectra of C_{12}NDDA

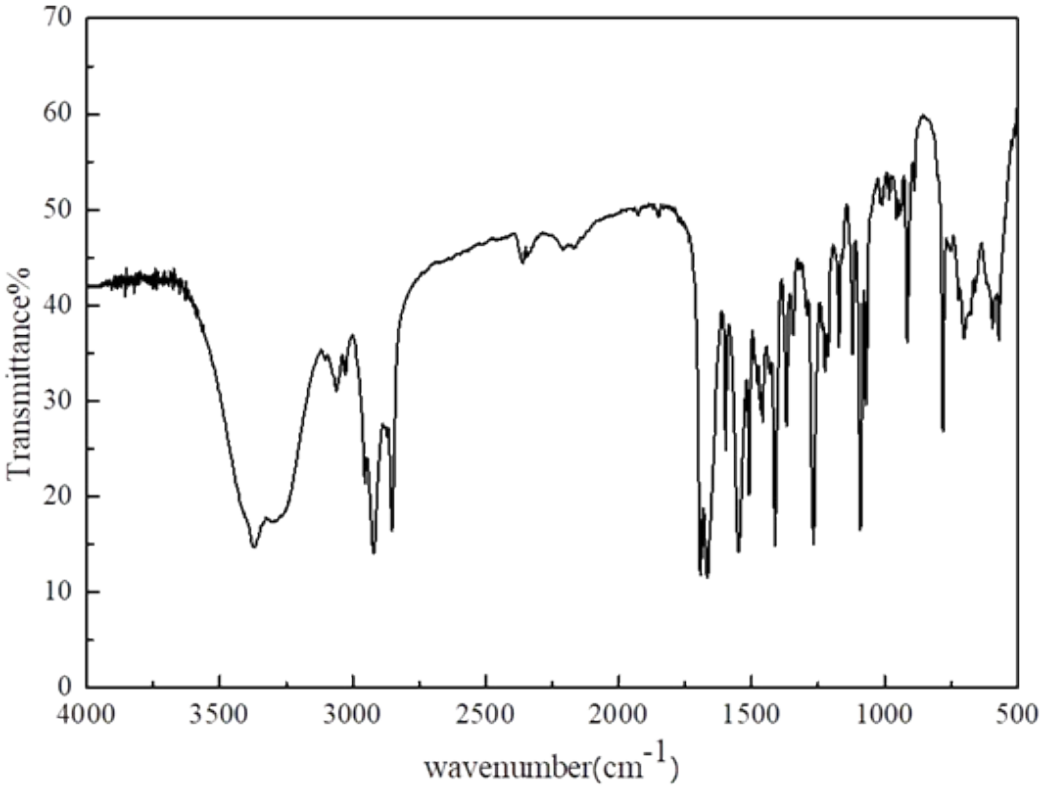

Fig. S6 FTIR spectra of C_{12}NDDA

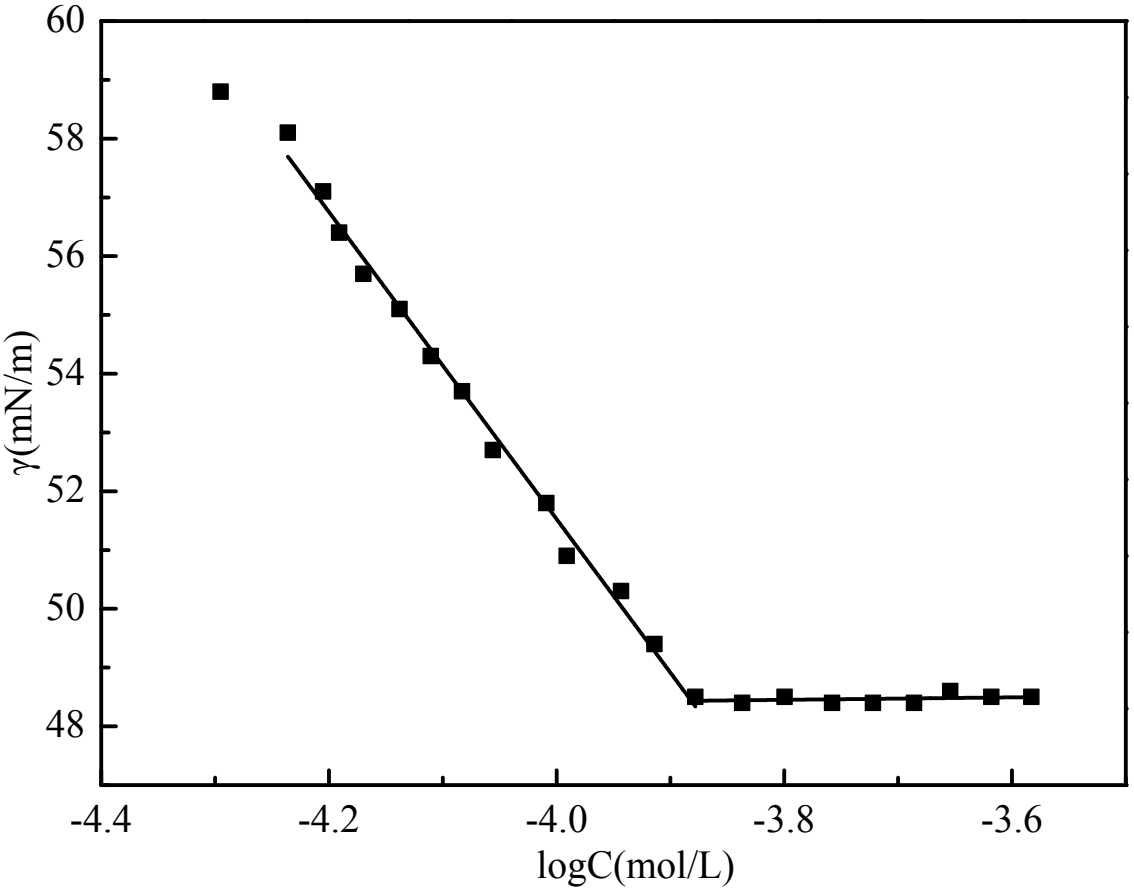

Fig. S7 Curves on surface tension versus log C of C_{12}NDDA in aqueous solution at 298 K

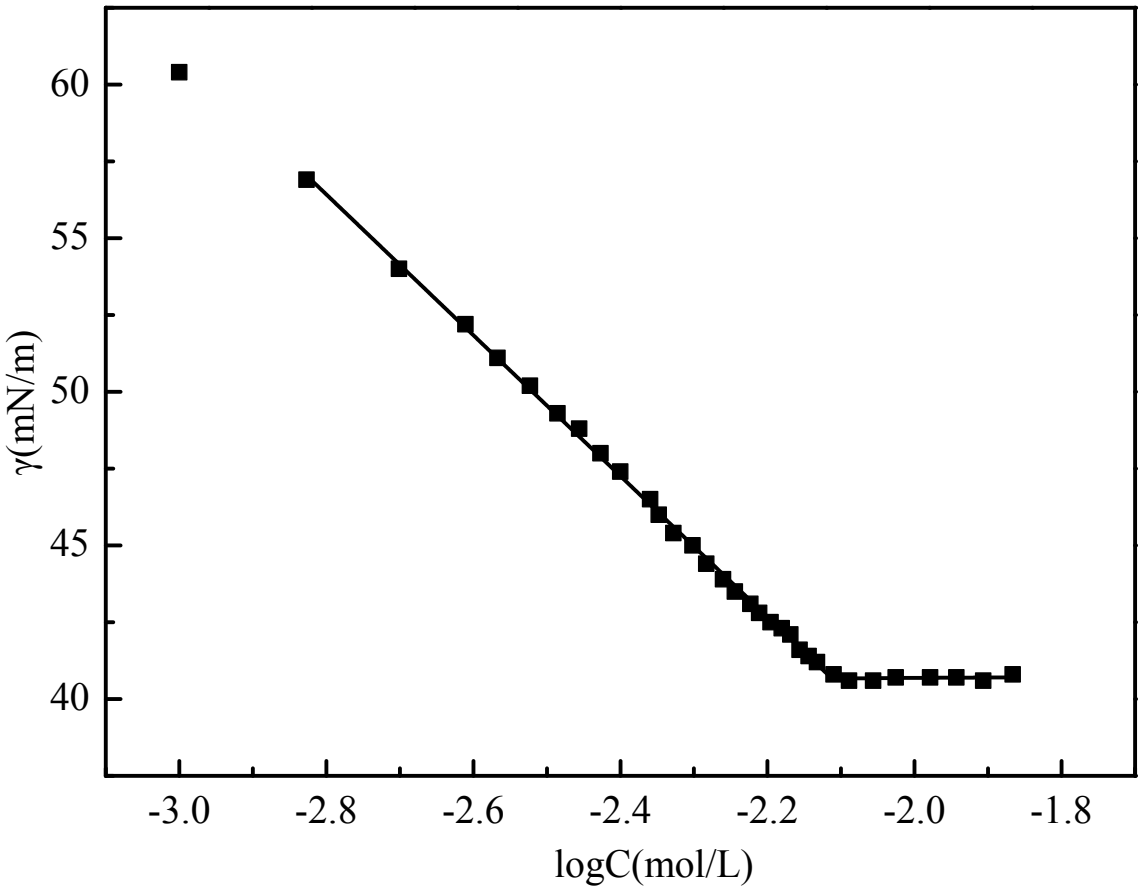

Fig. S8 Curves on surface tension versus log C of 1227 in aqueous solution at 298 K

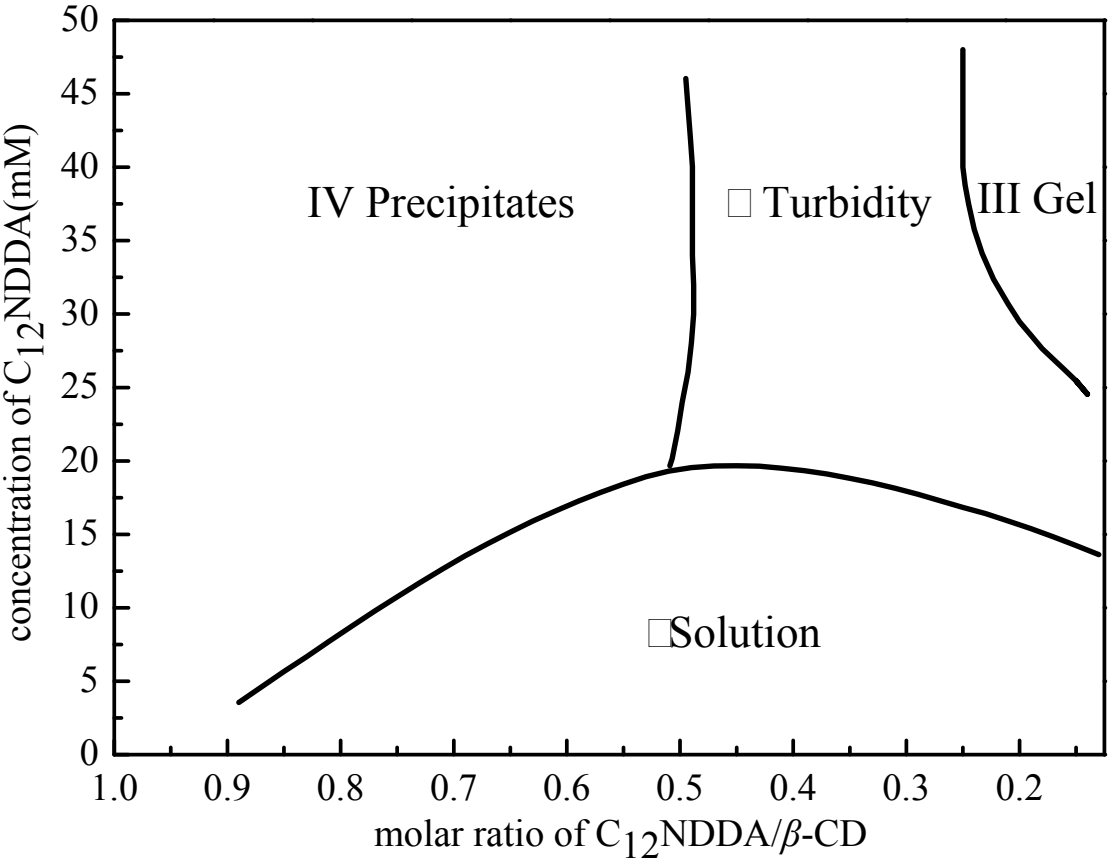

Fig. S9. Phase diagram of the C_{12}NDDA/β-CD/H_2O system at 25 ^oC.

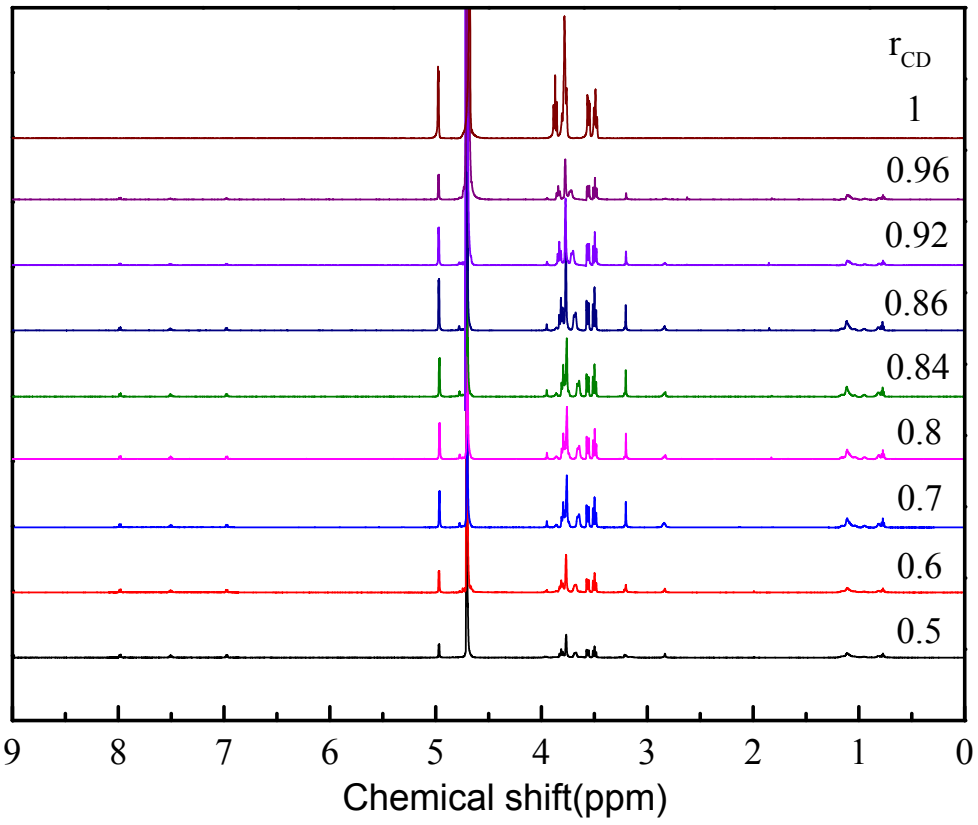

Fig. S10 ^{1}H NMR spectra and proton assignments of β-CD/C_{12}NDDA mixtures in D_2O versus different molar ratio

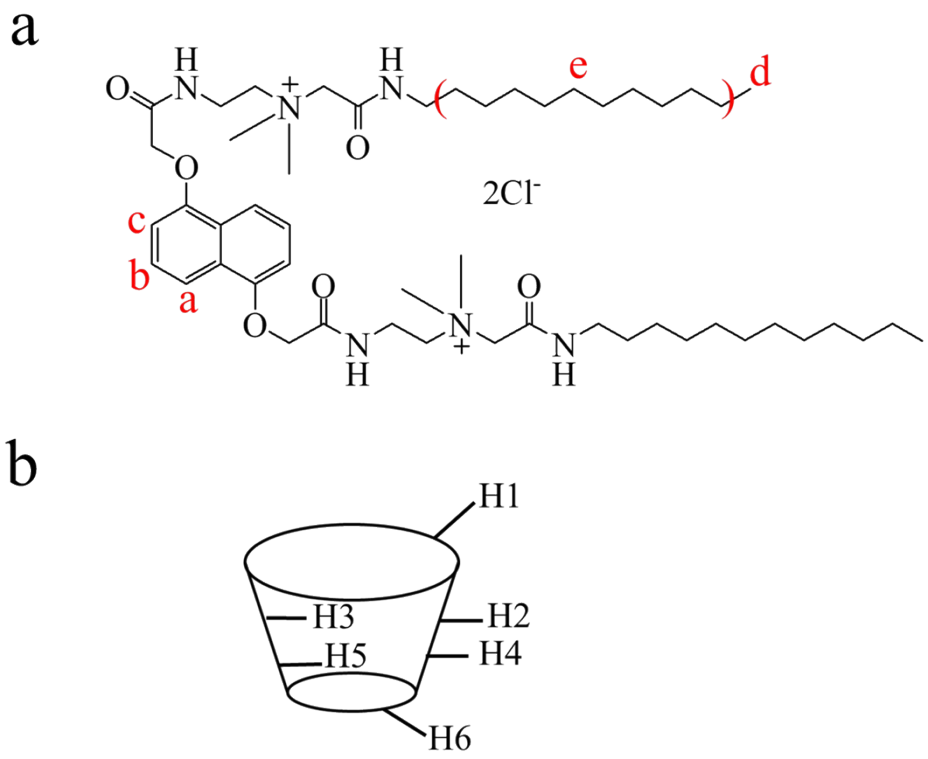

Fig. S11 Signal assignments of cationic Gemini surfactant C_{12}NDDA (a) and β-CD (b)

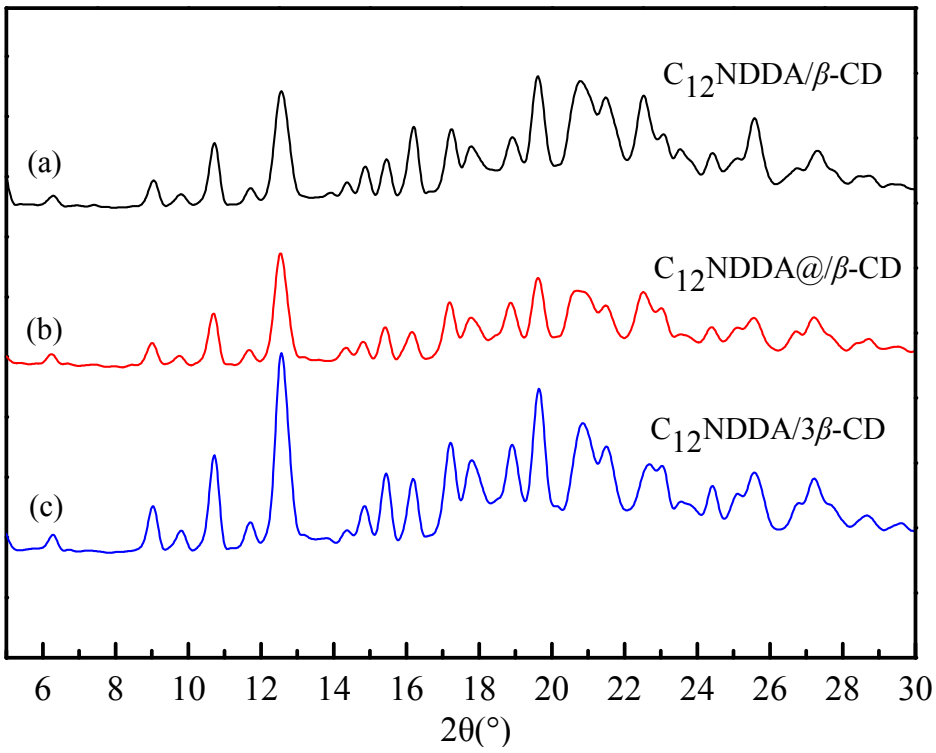

Fig. S12 XRD patterns of physical mixture at C_{12}NDDA/β-CD molar ratio of (a) 1:1, (b) 1:2, (c) 1:3.

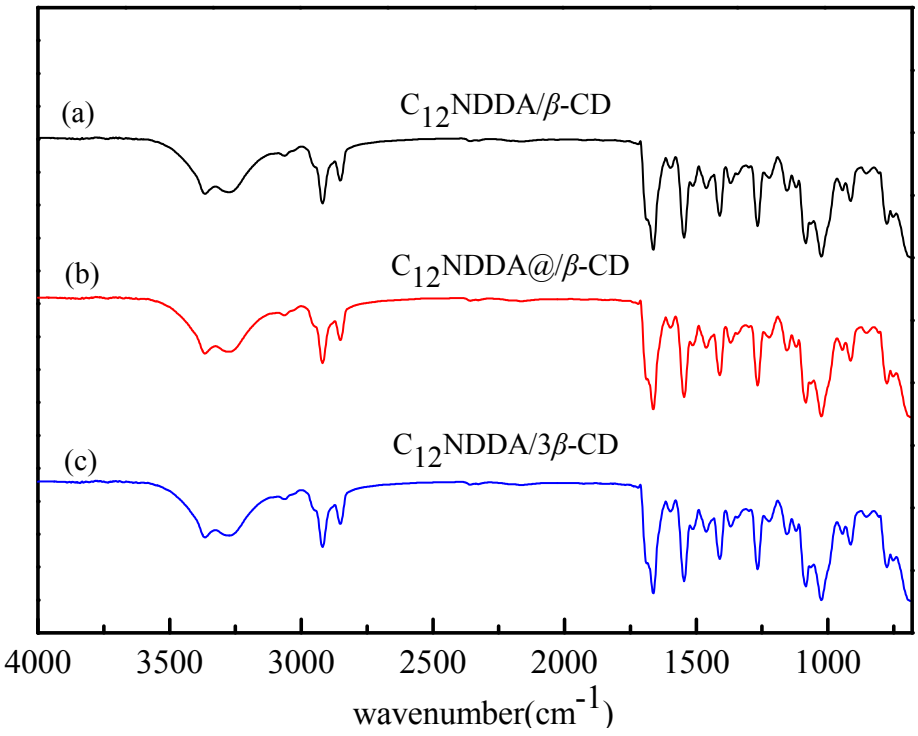

Fig. S13 FTIR spectra of physical mixture at C_{12}NDDA/β-CD molar ratio of (a) 1:1, (b) 1:2, (c) 1:3.

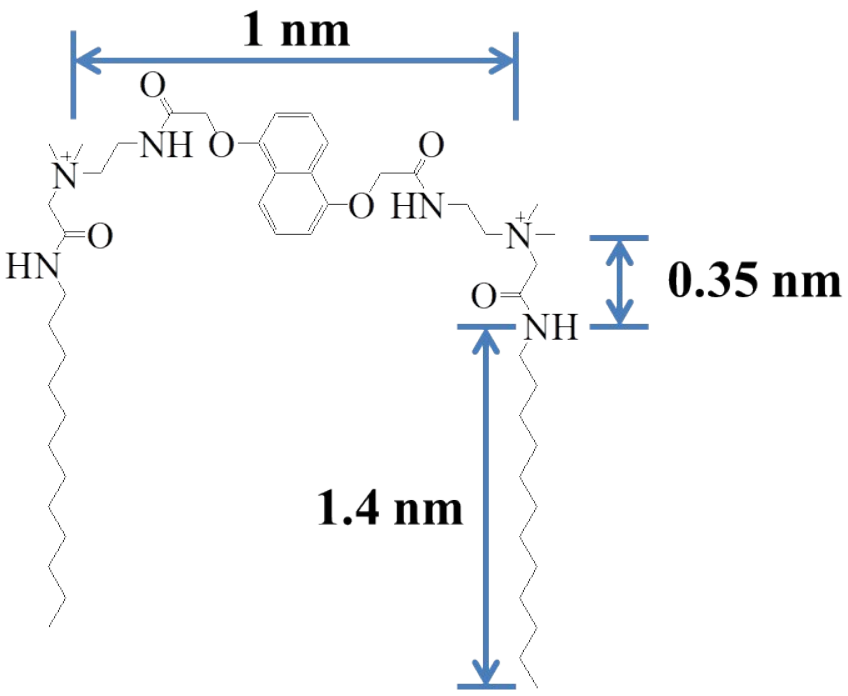

Fig. S14 Chemical structure of cationic trimeric surfactant DTAD with the extended lengths estimated with Chem3D