

Supporting Information

Coacervation of Dynamic Covalent Surfactant with Polyacrylamide: Property and Application

Weiwei Zhao,^{†,‡} Hua Wang,^{†,‡} and Yilin Wang^{*,†,‡}

[†]Key Laboratory of Colloid, Interface and Chemical Thermodynamics, CAS Research/Education Center for Excellence in Molecular Sciences, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, P. R. China

[‡]University of Chinese Academy of Sciences, Beijing 100049, P. R. China

*Corresponding author: yilinwang@iccas.ac.cn (Y.W.)

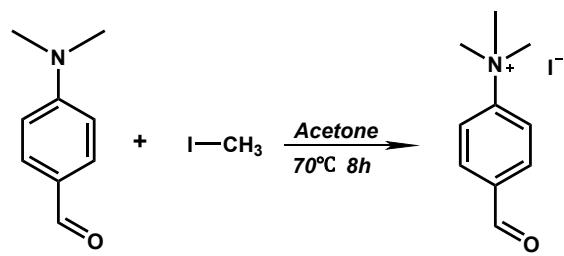


Figure S1. Synthesis procedure for FBA.

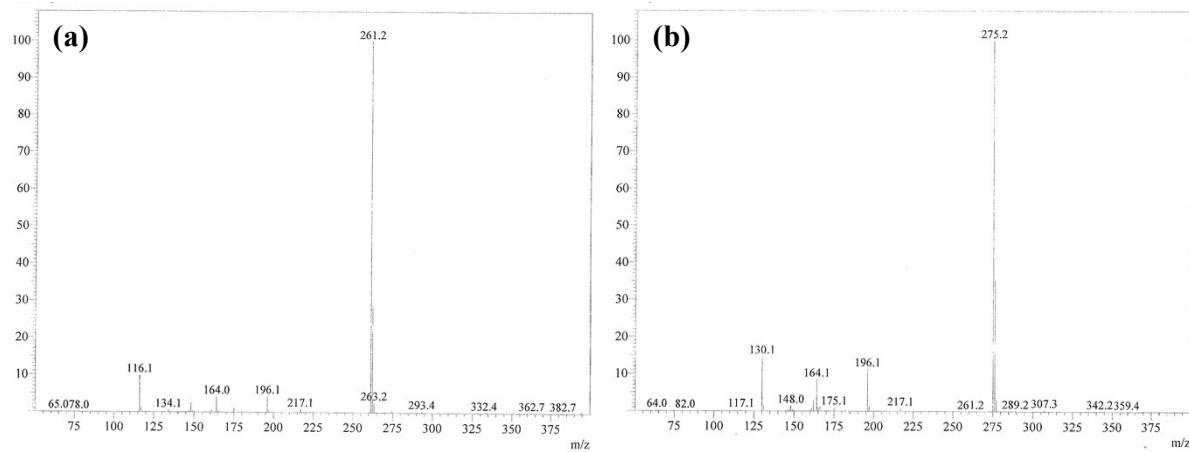


Figure S2. Mass spectrum of 20 mM C₇-FBA and 20 mM C₈-FBA at pH 12.2.

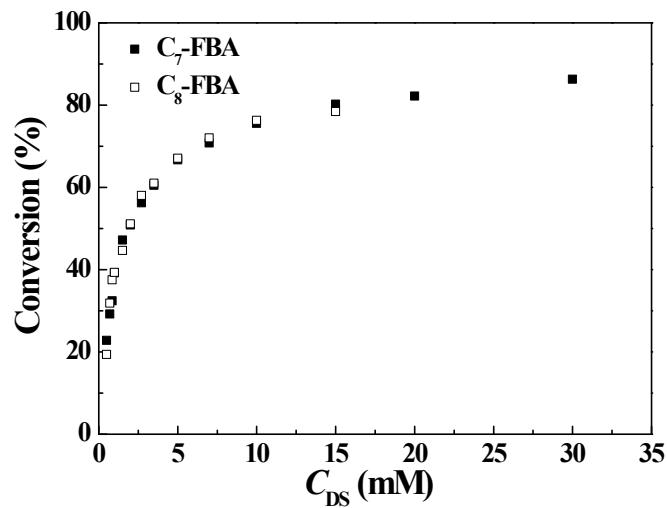


Figure S3. Imine conversion curves for C₇-FBA and C₈-FBA as a function of surfactant concentration at 25 °C and pH 12.2.

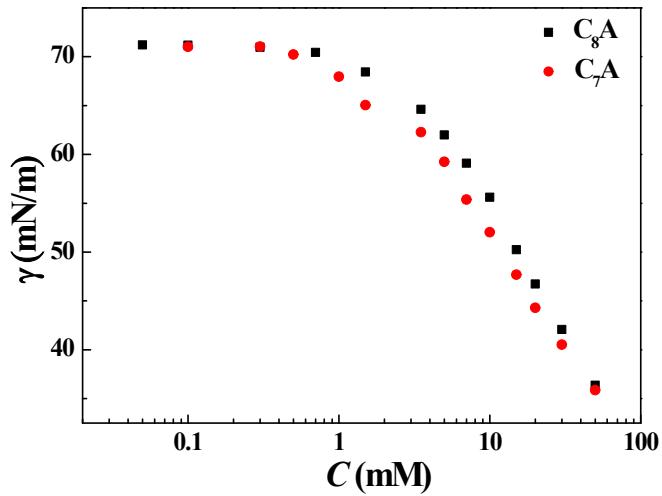


Figure S4. Surface tension curves of C₇A and C₈A plotted against the amine concentration at pH 1.5.

Table S1. The Elemental Analysis Results of FBA, C₇-FBA, and C₈-FBA

Elemental Analysis	Experimental values			Theoretical values		
	N (%)	C (%)	H (%)	N (%)	C (%)	H (%)
FBA	4.60	41.13	4.99	4.81	41.26	4.85
C ₇ -FBA	7.17	52.36	7.50	7.21	52.58	7.53
C ₈ -FBA	6.98	53.94	7.81	6.96	53.73	7.77