

X 型与线型嵌段聚醚在空气/水和正庚烷/水界面上聚集行为的比较研究

陈贻建 刘 腾 翟雪如 徐桂英*

(山东大学胶体与界面化学教育部重点实验室, 济南 250100)

Comparative Study on the Aggregation Behaviors of X-Shaped and Linear Block Polyethers at the Air/Water and *n*-Heptane/Water Interfaces

CHEN Yi-Jian LIU Teng ZHAI Xue-Ru XU Gui-Ying*

(Key Laboratory of Colloid and Interface Chemistry, Ministry of Education, Shandong University, Jinan 250100, P. R. China)

*Corresponding author. Email: xuguiying@sdu.edu.cn; Tel: +86-531-88365436; Fax: +86-531-88564750.

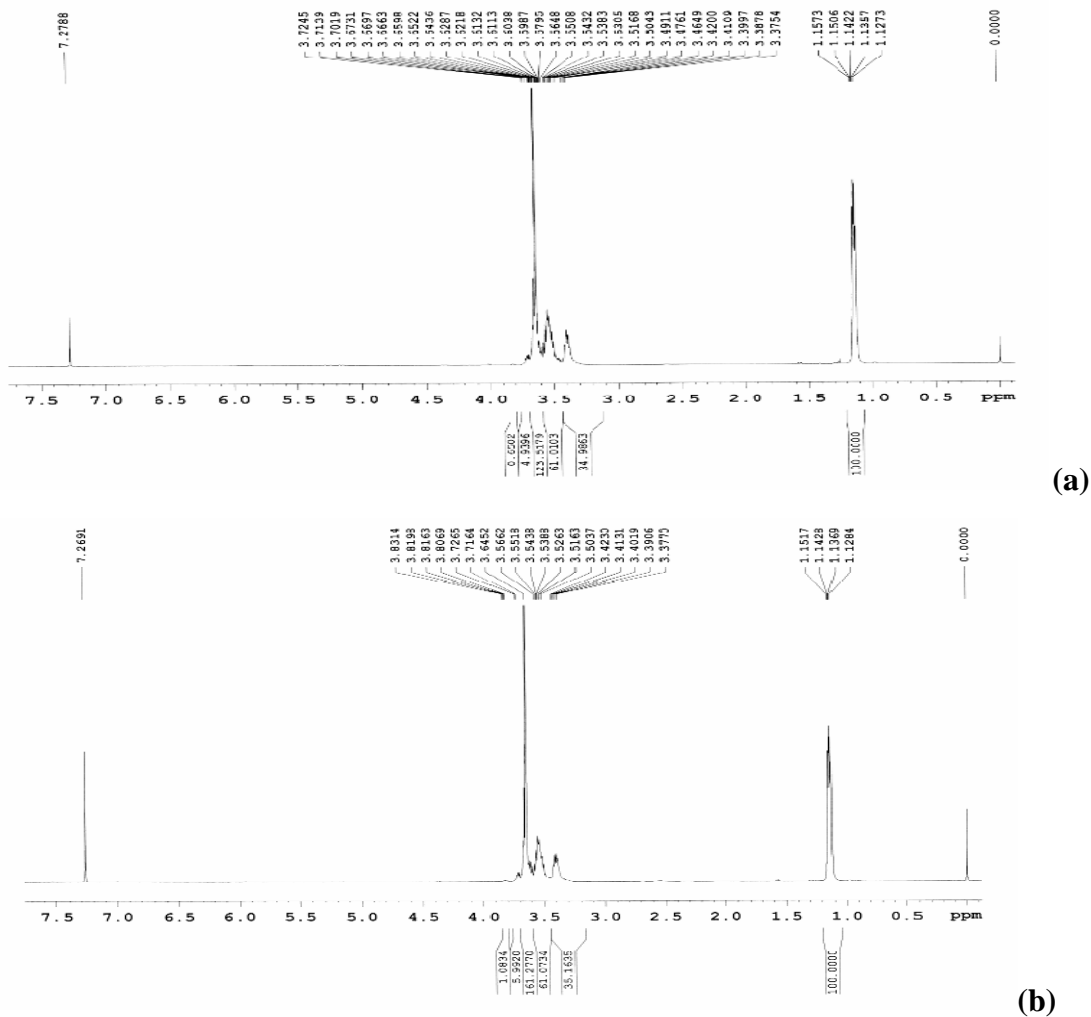


图 S1 LPE(a) 和 TPE(b)的核磁共振图

Fig.S1 The ^1H NMR spectra of LPE (a) and TPE (b)

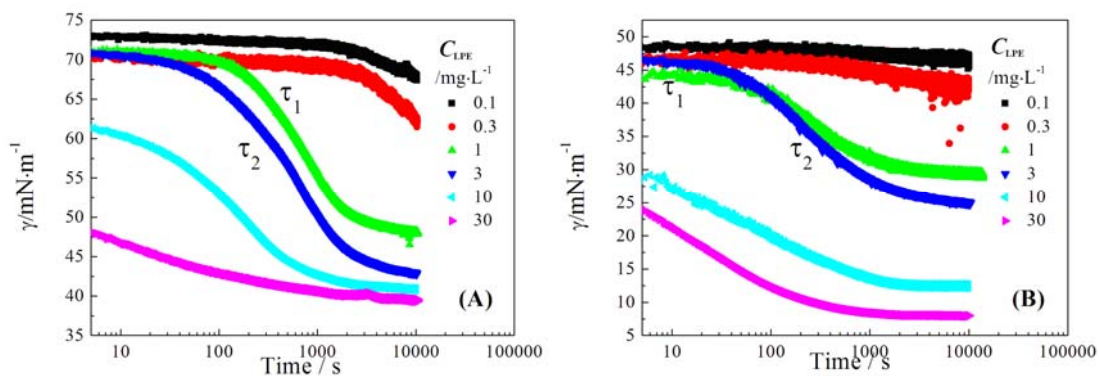


图 S2 不同浓度 LPE 的动态界面张力曲线

Fig.S2 Dynamic interface tensions of LPE and TPE at various concentrations
(A) LPE: air/water surface, (B) LPE: n-heptane/water interface

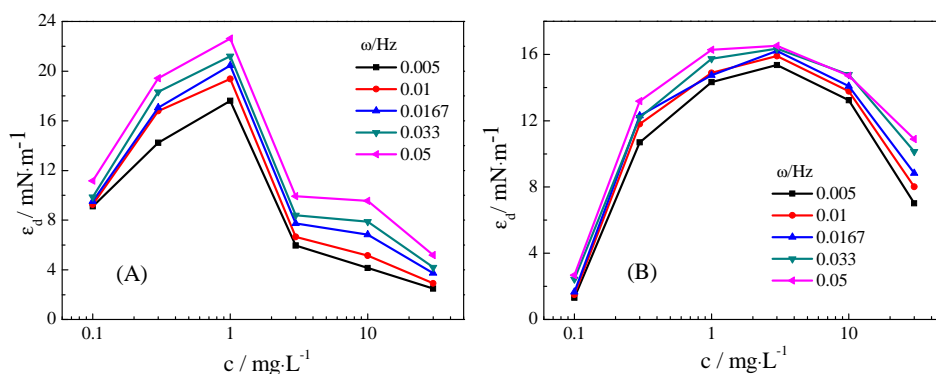


图 S3 LPE 体系扩张弹性随浓度的变化

Fig.S3 Effect of concentration on the dilational elasticity of LPE at different frequency

(A): air/water surface, (B) n-heptane/water interface

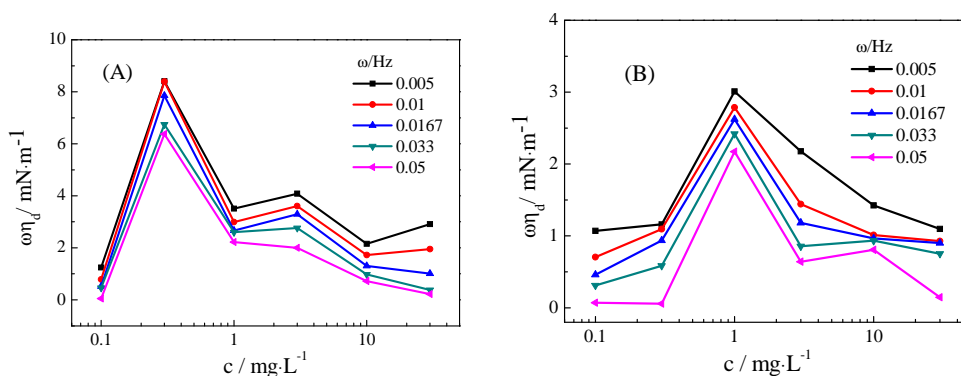


图 S4 LPE 体系的扩张粘性随浓度的变化

Fig.S4 Effect of concentration on the dilational viscosity of LPE at different frequency

(A) air/water surface, (B) n-heptane/water interface, (C) Effect of concentration on the dilational viscosity of block polyethers at the frequency of 0.01 Hz