

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)

▶ [Email Alert](#)

- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

▶ [本刊中包含“表面活性剂”的相关文章](#)

▶ [本文作者相关文章](#)

- [陈文君](#)
- [顾强](#)
- [姚发业](#)
- [李干佐](#)

添加剂对双子表面活性剂**DYNOL-604**浊点的影响

陈文君,顾强,姚发业,李干佐

山东大学,济南(250100)

收稿日期 修回日期 网络版发布日期 接受日期

摘要 对双子表面活性剂DYNOL-604的浊点开展研究,考察了添加剂对其浊点的影响。离子表面活性剂的加入,使其浊点升高,而加入醇时出现了一种双浊点的现象,我们称之为“下限浊点”和“上限浊点”。即温度低于“下限浊点”和高于“上限浊点”,体系由浑浊变为澄清。采用NMR手段测定“上限浊点”以上温度体系的自扩散系数,证明为双连续微乳液结构,并从R比值理论进行分析。

关键词 [表面活性剂](#) [扩散系数](#) [微乳](#) [核磁共振谱法](#)

分类号 [0647](#)

## Effect of Alcohol and Ion-Surfactant on the Cloud Point Dynol-604

Chen Wenjun,Gu Qiang,Yao Faye,Li Ganzuo

Key Lab for Colloid and interface Chemistry of State Education Ministry, Shandong University,Jinan(250100);Key Lab for Colloid and interface Chemistry of State Education Ministry, Shandong University, Jinan(250100anzuo)

**Abstract** The effect of a series of alcohols and ionic surfactants on the cloud point (CP) of nonionic surfactant Dynol-604 has been investigated. The result show that the addition of SDS and CTAB makes the cloud point of Dynol-604 increases greatly and the influence of alcohols on the cloud point of Dynol-604 is complex. When the alcohol is added into the Dynol-604 solution, the system appears double cloud points which are named "upper limit CP" and "lower limit CP" respectively. The phenomenon is discussed using the theory of Cohesion Energy Ratio. The system becomes transparent from turbidity when the temperature is above the upper limit CP. The measurement of the self-diffusion coefficients by the Pulse Field Gradient Spin-Echo Method (PFGSE-NMR) for the upper limit CP solution is carried out and we can conclude that the system is a bicontinuous microemulsion.

**Key words** [SURFACTANTS](#) [DIFFUSION COEFFICIENTS](#) [DIFFUSION COEFFICIENTS](#) [<sup>1</sup>H NMR](#)

DOI:

通讯作者