

伍川

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摘要：本文详细阐述结晶过程中溶液浓度的各种测量方法的原理、准确性和优缺点，指出对于强电解质溶液的结晶过程，利用密度法可实现溶液浓度的在线测量且测量结果具有较高的精度，基本上能满足结晶动力学参数估计对于数据质量的要求。

关键词：溶液结晶, 过饱和度, 溶液浓度, 在线测量

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### Analytical methods for solution concentration in crystallization process

Abstract: In this article, the principle, accuracy, advantages and disadvantages for each kind of solution concentration measurement technique were discussed and compared in detail. According to the comparison, it could be found that during crystallization process of strong electrolyte solution, densimeter is available to acquire the on-line concentration data with good accuracy and can be used in future modeling identification and parameter estimation.

Key words: Crystallization from solution, Supersaturation, Concentration, On-line measurement

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