

Facile Microencapsulation of n-Octadecane via Tubular Microfluidics

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We present facile microencapsulation of paraffin by using a simple tubular microfluidic device. This offers more than 95% encapsulation efficiency and produces highly monodisperse microcapsules. The resultant microcapsules exhibit sharp phase transitions without supercooling upon heating/cooling temperature cycles, as compared with bulk materials. We also explore the effect of magnetic nanoparticles on the phase transition behavior.