Enhanced Mass Transfer in Liquid-Liquid Systems

by

M. Alcina Mendes-Tatsis

Department of Chemical Engineering and Chemical Technology
Imperial College of Science, Technology and Medicine
London SW7 2BY
United Kingdom

Abstract

When interfacial convection is present in a mass transfer system there is an increase in the mass transfer rates and therefore the ability to induce it in systems where it is otherwise absent can be desirable. This paper summarises the work done in recent years in the Imperial College laboratories and under microgravity, to investigate the effect of interfacial convection on the enhancement of mass transfer in quiescent binary liquid-liquid systems when Marangoni convection is either inherently present or is induced by the addition of surfactants.