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Microemulsions as stepping stones to greener organic chemistry

By Nadja Wulff

Cuvillier Verlag Jan 2015, 2015. Taschenbuch. Book Condition: Neu. Neuware - In organic chemistry the simultaneous solubility of hydrophobic and hydrophilic reactants in a common solvent is an ubiquitous problem. Often either an expensive or a toxic solvent is needed. Alternatively, polar and non polar components are mixed into macroemulsions permitting them to react across the internal interface. However, macroemulsions display a comparatively small interfacial area. Thus, the reaction rate is low. Microemulsions feature an inherent vast interfacial area which facilitates significantly higher reaction rates. Furthermore, they allow a rather simple monitoring of the reaction kinetics by observing changes in the phase behavior. In this work the advantages of microemulsions as efficient reaction media for the photochemically induced Paternò Büchi reaction of pyruvic acid and 1 octene are elucidated. The amphiphilic reaction product 3 hexyl 2 methyloxetane 2 carboxylic acid influences the phase behavior of the microemulsion system significantly. With increasing UV exposure time the point of highest efficiency was shifted to lower temperatures and, interestingly, an increase of efficiency was detected. Hence, the newly created amphiphile acts as an efficient, hydrophobic cosurfactant. Additionally, with small angle neutron scattering and freeze fracture electron microscopy it was shown that the bicontinuous...



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