

Comparison of Top-down and Bottom-up Process for Preparing Nanoemulsions

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Dodecane-in-water nanoemulsions were prepared by a conventional top-down process and a bottom-up MAGIQ in the presence of four different types of nonionic surfactants. A good correlation was found between the final droplet size and dynamic surface tension, suggesting that adsorption dynamics of surfactants to oil/water interfaces is critical in determining droplet size in MAGIQ.