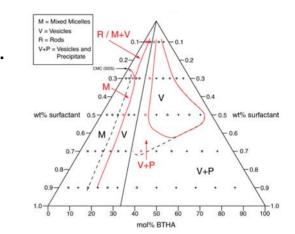
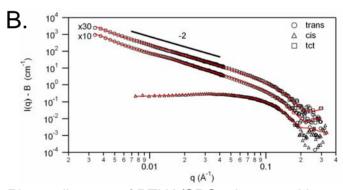
Equilibrium and Dynamic Properties of a Photosensitive Surfactant System

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This research is focused on the light-sensitive surfactants(below), and investigations of the nanostructure and phase diagram of this surfactant when mixed with anionic surfactants such as sodium dodecylsurfate (SDS).





(A) Phase diagram of BTHA/SDS mixtures with *trans*-BTHA (black) or *cis*-BTHA (red). (B) SANS data for solutions containing 0.3wt% total surfactant and 15mol% BTHA / 85mol% SDS, before (trans, indicating presence of vesicles) and after isomerization with UV light (cis, indicating presence of micelles), and after isomerization with UV and then visible light (tct, indicating recovery of vesicles). The solid lines represent form factor fits.