



Figure 8.4 Composition dependence of solubilization for (a) $C_{12}EO_6-C_{12}H_{26}-C_{16}H_{34}$ and (b) $DDAPS-C_{12}H_{26}-C_{16}H_{34}$ at 298 K.

diffusion process described by Eq. 2. Here, the value of δ is decreased and the rate increased by increased stirring (1,2). A similar conclusion has been reached more recently from the description of interfacial kinetics in experiments involving contacting phases with different states of surfactant aggregation (9,10). A linear increase in volume of the aqueous micellar phase with time in contact with a lamellar phase was found. If the rate of mass transfer from the micellar phase had been diffusion-limited, a square root of time-dependence of the layer thickness would have been expected. The restructuring to produce surfactant monomers from the micellar dis-