STRUCTURE TRANSFORMATIONS IN THE TRIPLE LIQUID SYSTEM TETRADECYLTRIMETHYLAMMONIUM BROMIDE–D_2O–NaBr

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S u m m a r y

Structure transitions in the triple liquid system tetradecyltrimethylammonium bromide–D_2O–NaBr are studied by the method of small-angle neutron scattering (SANS) in wide ranges of the temperature, pressure, and salt concentration. The phase P–T diagrams of the transition of the colloidal micellar liquid system to a colloidal system of the suspension type through a structural micellae–crystals (precipitates) transition are constructed. It is shown that the addition of the salt does not result in a change of the slope of the line of phase equilibrium between a micellar colloidal system and a suspension with precipitates which is equal to 53 bar/K. It is shown that an increase in the salt concentration causes a shift of the line in the direction of higher temperatures and lower pressures.