A multi‑fluid nonrandom lattice fluid model for mixtures containing nonionic surfactant systems

장성현, 김화용*, 신문삼, 민세련, 형성훈
서울대학교
(hwayongk@snu.ac.kr*)

Surfactant system has many industrial applications. However it shows highly non‑ideal phase behavior because of the inter‑association and intra‑association hydrogen bond. We present a lattice fluid equation of state that combines the multi‑fluid nonrandom lattice fluid model with modified Veytsman statistics for intra+ inter molecular association to calculate phase behavior for mixture containing surfactant systems. The experimental results fitted to this model show good accordance.