

Equation of state for solid-liquid-vapor phase and its application of binary mixtures

이주호, 신문삼, 김화용*
서울대학교 응용화학생명공학부
(hwayongk@snu.ac.kr*)

Recently we have developed an lattice fluid equation of state for solid-liquid-vapor phase by extending Veytsman statistics and applied the developed model for pure components. In this work, the proposed model is extended to the solid-liquid and solid-vapor equilibria for binary mixtures by introducing combining rule into the extended Veytsman statistics. It is shown that the proposed model is capable of representing both solid-liquid and solid-vapor equilibria for binary mixtures by inspecting the Gibbs Energy plot.