Phase Behavior of a Ternary System of Poly(L-Lactic acid) in Supercritical Mixtures of Carbon Dioxide and Dichloromethane

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Phase behavior data are presented for poly(L-lactic acid) (PLLA : MW = 300,000) in supercritical mixtures of dichloromethane and carbon dioxide. Cloud point pressures were measured using a variable-volume view cell apparatus as functions of temperature, dichloromethane composition in a mixed solvent, molecular weight of PLLA at the polymer concentration of 0.01, 0.02 and 0.03 mass fraction in solution, and for temperatures up to about 363.15K. This system exhibited the characteristics of lower critical solution temperature phase behavior.