## Phase behavior of ternary mixture system of poly (L-lactic acid), trichloromethane and carbon dioxide

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In this study, the high pressure phase behavior of poly(L-lactic acid) (Mw = 312,000), trichloromethane and carbon dioxide ternary mixtures was studied using a variable volume view cell at temperatures ranging from 313.15 K to 353.15 K and pressures of up to 300bar as functions of temperature and the CO2/trichloromethane mass ratio at poly(L-lactic acid) weight fractions of 1.0, 2.0 and 3.0%. The experimental results were correlated with the hybrid equation of state for the CO2-polymer system using the van der Waals one -fluid mixing rule with three adjustable binary interaction parameters.