

## Vapor-Liquid Equilibria for Ethylene + 1-Octene Binary Mixture

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In this work, experimental data will be presented on the phase behavior of ethylene + 1-octene binary mixture between 60 and 150 °C. V-L-E data of the binary mixture are determined in pressure-temperature (P-T) space at elevated pressures up to 160 bar. Pressure-concentration (P-x) loops of the binary mixture are plotted using the P-T diagram. Ethylene + 1-octene phase behavior is modeled with the Peng-Robinson equation of state with two mixture parameters.