

Bubble Point Measurements on Butane-Octane and Butane-Nonane Binary Mixtures

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Mixtures of small gaseous hydrocarbons with longer chain hydrocarbons are of interest to the natural gas industry. Mixtures containing nonane are of particular interest, as nonane was just incorporated into the GERG-2008 equation of state. The bubble-point pressures of three compositions of each of the binary mixtures butane-octane and butane-nonane were measured over the temperature range of 270 K to 370 K. Bubble-point data are reported and compared to existing literature data as well the GERG-2008 equation.