

Handbook Chemical Engineering Calculations

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PHYSICAL AND CHEMICAL PROPERTIES 1.5 where T_c , P_c , V_c , and Z_c are critical temperature, critical pressure, critical volume, and critical compressibility factor, respectively. Thus, for p-xylene, $T_c = 412.3[0.567+0.106 - (0.106)^2] - 1 = 623.0K(661.8 F)$ (literature value is 616.2 K) $P_c = 106.16(0.34+1.378) - 2 = 35.97atm(3644 kPa)$ (literature value is 34.7 atm) V_c

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