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Manual

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, $T_c = 412.3[0.567+0.106(0.106)^2]^{1/3} = 623.0\text{K}(661.8\text{ F})$ (literature value is 616.2 K) $P_c = 106.16(0.34+1.378)^{1/2} = 35.97\text{atm}$ (3644 kPa) (literature value is 34.7 atm) V_c

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