

## Handbook Chemical Engineering Calculations

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In an alternate form, the Redlich-Kwong equation is written as  $Z = 1 / (1 - h) - (A/B) [h / (1 + h)]$  where  $h = b/V = B P / Z$ ,  $B = b/RT$ ,  $A/B = a / b RT^{1.5}$ , and  $Z$ , the compressibility factor, is equal to  $P V / RT$ . Calculation Procedure 1. Calculate the compressibility factor  $Z$ .

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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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General Description. This handbook presents a comprehensive collection of civil engineering calculation procedures useful to practicing civil engineers, surveyors, structural designers, drafters, candidates for professional engineering licenses, and students. Engineers in other disciplines—mechanical, electrical, chemical, environmental, etc.—will also find this handbook useful for making occasional calculations outside their normal field of specialty.

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