

## Handbook Chemical Engineering Calculations

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In an alternate form, the Redlich-Kwong equation is written as  $Z = 1 / (1 - h) \left[ \frac{A/B}{h} + (1 + h) \right]$  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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