Example 3.9

Result

(a)By the Ideal-gas Equation

The Molar Volume is

1.6961

m^3/kmol

(b)The Generalized compressibility-factor Correlation

The Molar Volume is

1.48

m^3/kmol

(c)The Generalized Virial-coefficient Correlation

The Molar Volume is

1.4908

m^3/kmol