

Calculation of molar volume and molar density of the mixture of gases:

1) Calculate the molar volume and molar density of the following gas mixture within 25-50 °C (in every 5 °C) at 1 bar pressure by using Peng-Robinson EoS. Consider binary interaction parameters are 0.

Gas component	Mole %
Methane	50
Ethane	30
propane	20