

Assignment

- Consider a two phase mixture of N_2 and O_2 at a pressure of 1 atm. Determine the liquid and vapor composition of the mixture if the temperature of the mixture is 80 K.
- The vapor pressures of N_2 and O_2 at 80 K are as given below.

Data

$$p_{\text{N}_2} = 1.349 \text{ atm}$$

$$p_{\text{O}_2} = 0.297 \text{ atm}$$

Answers

1 atm	80 K
x_{N_2}	0.654
x_{O_2}	0.346
y_{N_2}	0.887
y_{O_2}	0.113