$Re^{\#} = 1.2531 \cdot 10^{6}$

(vii) Calculate ρ using the following equation:

$$\rho = \frac{p_{\text{in}} \cdot MW_{\text{mix}}}{R \cdot T_{\text{in}}}$$

Eq. 1066.625-10

Example:

$$\rho = \frac{99132 \cdot 0.0287805}{8.314472 \cdot 298.15}$$

$\rho = 1.1509 \text{ kg/m}^3$