

12 A cylinder contains oxygen gas at a temperature of 25°C and a pressure of $1.4 \times 10^7 \text{ Pa}$.

Calculate the density of the oxygen gas in the cylinder.

mass of an oxygen molecule = $5.3 \times 10^{-26} \text{ kg}$

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Density of oxygen gas =

(Total for Question 12 = 5 marks)