

15 What is the approximate number of atoms per unit volume of an ideal monatomic gas at a temperature of 30°C and a pressure of $1.2 \times 10^5 \text{ Pa}$?

A 1.0×10^{22}

B 6.0×10^{23}

C 2.9×10^{25}

D 2.9×10^{26}