

- 28** In the lungs, there are tiny sacs of air known as alveoli. The average diameter of an alveolus is 0.250 mm. Consider an oxygen molecule of mass 5.30×10^{-26} kg that is trapped in an alveolus. What is the order of magnitude of the uncertainty in the velocity of this oxygen molecule?

- A** 10^{-5} m s⁻¹
- B** 10^{-8} m s⁻¹
- C** 10^{-10} m s⁻¹
- D** 10^{-12} m s⁻¹