

2 A sample of gas has a mass of $4.8 \mu\text{g}$ and occupies a volume of 1.2 dm^3 .

What is the density of the sample of gas?

- A** $4.0 \times 10^{-3} \text{ kg m}^{-3}$
- B** $4.0 \times 10^{-5} \text{ kg m}^{-3}$
- C** $4.0 \times 10^{-6} \text{ kg m}^{-3}$
- D** $4.0 \times 10^{-8} \text{ kg m}^{-3}$