

7. A 22.5 L container holds 1.00 mol of He at a pressure of 101 kPa. What is the root mean square speed (rms speed) of the molecules?

A.  $4.6 \times 10^3$  m/s

B.  $3.4 \times 10^6$  m/s

C.  $1.7 \times 10^6$  m/s

D.  $9.2 \times 10^2$  m/s

E.  $1.3 \times 10^3$  m/s

Ans. \_\_\_\_\_