

14 20.0 cm^3 of hydrogen peroxide decomposes to water and oxygen in the presence of a suitable catalyst.

160 cm^3 of oxygen, measured at room conditions, is produced in 5.00 minutes.

What is the average rate of decomposition of hydrogen peroxide during this reaction period?

A $2.22 \times 10^{-5} \text{ mol s}^{-1}$

B $4.44 \times 10^{-5} \text{ mol s}^{-1}$

C $1.76 \times 10^{-4} \text{ mol s}^{-1}$

D $2.67 \times 10^{-3} \text{ mol s}^{-1}$