

Question #72087, Physics / Other

What is the frequency of a wave of red light in the air where its wavelength is $6.8 \times 10^{-7} \text{ m}$?

Solution

$$f = \frac{c}{\lambda};$$

$$f = \frac{3 \times 10^8}{6.8 \times 10^{-7}} = 4.4 \times 10^{14} \text{ Hz}$$

Answer: $4.4 \times 10^{14} \text{ Hz}$.

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