Question #62949, Chemistry / General Chemistry

What is the wavelength of radiation that has a frequency of $6.912 \times 10^{14} \, \text{s}^{-1}$?

Solution:

$$\lambda = \frac{c}{v}$$

c – light speed, 3.0x108 m/s

$$\lambda = \frac{3.0 \times 10^8 \frac{m}{s}}{6.912 \times 10^{14} \frac{1}{s}} = 0.434 \times 10^{-6} m = 434 \times 10^{-9} m = 434 nm$$

Answer:

434 nm

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