Question #72473, Chemistry / Other / Completed

A Photon has a wavelength of 698 nm. What is the frequency of the photon?

Solution

The connection between the mentioned parameters is: $v = c/\lambda$.

$v = 2.998 \times 10^8 \text{ ms}^{-1} / 698 \times 10^{-9} \text{ m} = 4.295 \times 10^{14} \text{ Hz}$.

Answer: 4.295×10^{14} Hz.