

9. Since $\lambda = (1,650,763.73)^{-1} \text{ m} = 6.0578021 \times 10^{-7} \text{ m} = 605.78021 \text{ nm}$, the energy is (using the result of problem 3)

$$E = \frac{hc}{\lambda} = \frac{1240 \text{ eV} \cdot \text{nm}}{605.78021 \text{ nm}} = 2.047 \text{ eV} .$$