## Result:

Photon energy $=1.976 \times 10^{-19} \mathrm{~J}$

## Solution:

$$
E_{\text {photon }}=\frac{h c}{\lambda}=\frac{\left(6.626 \times 10^{-34} \mathrm{~J} \mathrm{~s}\right)\left(2.9979 \times 10^{8} \mathrm{~m} / \mathrm{s}\right)}{1.005 \times 10^{-6} \mathrm{~m}}=\frac{1.986 \times 10^{-25} \mathrm{~J} \mathrm{~m}}{1.005 \times 10^{-6} \mathrm{~m}}=1.976 \times 10^{-19} \mathrm{~J}
$$

