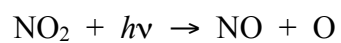


d) When  $\text{NO}_2$  absorbs UVA light in the atmosphere, at wavelengths shorter than 400 nm, it dissociates into  $\text{NO} + \text{O}$ :



What is the bond dissociation energy (in  $\text{kJ mol}^{-1}$ ) of the N–O bond in  $\text{NO}_2$ ?

Answer: