

## **Answer on Question #50121 - Chemistry – Physical Chemistry**

### **Question**

find out the ph of pure water

### **Answer:**

$$\text{pH} = -\log_{10}[\text{H}^+]$$

For pure water  $[\text{H}^+] = [\text{OH}^-] = 1 \times 10^{-7}$ .

So, the pH of pure water is:

$$\text{pH} = -\log_{10}[1 \times 10^{-7}] = 7$$

**Answer:** pH = 7