

The pH Scale

$$\textcircled{1} \quad \text{pH} = -\log(6.23 \times 10^{-4}) \\ = 3.206$$

more acidic

$$\textcircled{2} \quad \text{pOH} = -\log(5 \times 10^{-2}) = 1.301$$

$$\text{pH} + \text{pOH} = 14$$

$$\text{pH} + 1.301 = 14$$

$$\text{pH} = 12.699$$

$$\textcircled{3} \quad \text{pH} = -\log(7.3 \times 10^{-5}) \\ = 4.137$$

$$\textcircled{4} \quad \text{pOH} = -\log(5 \times 10^{-8}) = 7.301$$

$$\text{pH} + \text{pOH} = 14$$

$$\text{pH} + 7.301 = 14$$

$$\text{pH} = 6.699$$

acidic

$$\textcircled{5} \quad \text{pH} = -\log(2.51 \times 10^{-5}) = 4.600$$

acidic