

Chem - CH18 Acid + Bases

Wkst: pH & pOH Calculations

$$pH + pOH = 14$$

Chemistry: pH and pOH calculations

$$pH = -\log[H^+]$$

$$[H^+] \text{ or } [H_3O^+] = 10^{-pH}$$

$$pOH = -\log[OH^-]$$

$$[OH^-] = 10^{-pOH}$$

Part 1: Fill in the missing information in the table below.

pH	[H ₃ O ⁺]	pOH	[OH ¹⁻]	ACID or BASE?
3.78				
	3.89 x 10 ⁻⁴ M			
		5.19		
			4.88 x 10 ⁻⁶ M	
8.46				
	8.45 x 10 ⁻¹³ M			
		2.14		
			2.31 x 10 ⁻¹¹ M	
10.91				
	7.49 x 10 ⁻⁶ M			
		9.94		
			2.57 x 10 ⁻⁸ M	
4.16				
	1.06 x 10 ⁻¹ M			
		3.82		
			8.53 x 10 ⁻⁷ M	
7.05				
	4.73 x 10 ⁻¹⁰ M			
		1.33		
			9.87 x 10 ⁻³ M	
11.68				
	9.22 x 10 ⁻⁸ M			
		12.24		
			5.39 x 10 ⁻¹² M	