

18.4 Acid-Base Chemistry: Theory

Multiple-Choice Questions

1. Which combination of quantities are dimensional quantities? (correct)
- (A) pressure, concentration, pH, amount of substance
 (B) volume, molarity, pH, amount of substance
 (C) volume, molarity, pH, concentration of ions
 (D) amount of substance, pH, concentration of ions, concentration of substance

(A) $n = 1000$, $m = 1000$

(B) $10 \text{ g H}_2\text{O}$, $1 \text{ mol H}_2\text{O}$, $1 \text{ g H}_2\text{O}$, $1 \text{ mol H}_2\text{O}$, $10 \text{ g H}_2\text{O}$, $1 \text{ mol H}_2\text{O}$
 (C) $1 \text{ mol H}_2\text{O}$, $1 \text{ mol H}_2\text{O}$

2. An acid-base reaction involves hydrogen ions. Suppose instead you consider hydroxide ions. If 1.0 g of acid were neutralized by base, how much base would you need? (1.0 g of acid, 1.0 g of base)

(A) $n = 1000$, $m = 1000$

(B) $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$

3. An acid-base reaction involves H^+ ions. H^+ ions are the smallest cations and are present in the solution of HCl . (correct)

(A) $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$

4. Which is the correct combination of properties for this following equation? (correct)



(A) $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$

5. A chemical reaction involves acid and base. Suppose instead you consider hydroxide ions. If 1.0 g of acid were neutralized by base, how much base would you need? (1.0 g of acid, 1.0 g of base)



(A) $1 \text{ g H}_2\text{O}$, $1 \text{ g H}_2\text{O}$

6. An acid-base reaction involves hydrochloric acid and sodium hydroxide. $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$. What is the mass of NaCl that is produced? (correct)



Multiple Choice Stoichiometry Test

Albert A Gayle

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