AP Chemistry, Chapter 4 Practice

1. How many grams of NaCl are contained in 700. mL of a 0.250 M solution of sodium chloride?

2. The oxidation state of chromium in K2CrO4 is:

3. The oxidation state of sulfur in the sulfate ion is

4. What volume of 0.25 M HNO, is necessary to react exactly with 7.4 g of Ca(OH)₂? $2HNO_3 + Ca(OH)_2 \longrightarrow 2H_2O + Ca(NO_3)_2$ $7.49 Ca(OH)_2 \times \frac{|mol|}{74.19} \times \frac{2mol|HNO_3}{mol|Ca(OH)_2}$

5. Describe how you would prepare 250. mL of a 0.354 M sodium sulfate solution using solid sodium sulfate crystals.

Transfer 12.49 Na, 504 to a 250 mL vol. flask.

Add distilled water, about 200 mL. Swirl until all

solute has dissolved, make up to the mark with distilled water.

a. What volume, in mL, of 12.1 M hydrochloric acid would be required to make 5.00 L of 2.00 M hydrochloric acid solution?

$$V_1 = \frac{M_2 V_2}{M_1} = \frac{(2.00 \, \text{M})(5.00 \, \text{L})}{12.1 \, \text{M}} = \frac{0.826 \, \text{L}}{826 \, \text{mL}}$$

6. Predict the products of the following reactions. Where a reaction occurs, write the net ionic equation. If no reaction occurs, write "N.R."

a. iron (III) sulfate solution and strontium chloride solution

b. lead (II) acetate solution and lithium iodide solution

c. aluminum nitrate solution and calcium bromide solution

d. ammonium hydroxde solution and cobalt (II) nitrate powder

Gas Variables Worksheet Answers

Karen M. Perrin, Perrin

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