Answers for Practice Problems B in page 465

Answers to Practice Problems B

1. 0.83 M acetic acid
2. 1.001 M HCl
3. 0.816 M sulfuric acid
4. 1.75 M $AgNO_3$
5. 0.2501 M $Ba(OH)_2$
6. 2.5 g KBr
7. 11 g NaCl

Homework

Additional Practice Have students solve the following molarity problems.

1. Determine the molarity of a solution prepared by dissolving 16.9 g of NaOH in enough water to make 250.0 mL of solution. Ans. 1.69 M
2. A solution is prepared by dissolving 30.05 g of ammonium dichromate, $(NH_4)_2Cr_2O_7$, in water and diluting it to 500.0 mL in a volumetric flask. What is the molarity of the solution? Ans. 0.2384 M
3. A mass of 158.0 g of calcium nitrate tetrahydrate is dissolved in enough water to make 1.500 L of solution. Calculate the molarity of this solution. Ans. 0.4460 M