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Workshop 5 – Nomenclature

Hint: The names and formulas of a variety of polyatomic ions (including ones that your instructor may not have previously given) can be found in the appendix of this lab manual.

A. Provide a chemical name for the following formulas:

1. NaBr _____

2. MgBr₂ _____

3. H₂O _____

4. Ca(NO₃)₂ _____

5. Fe(NO₃)₂ _____

6. Na₂SO₄ _____

7. SO₃ _____

8. (NH₄)₃PO₄ _____

9. Fe₃(PO₄)₂ _____

10. Cu₂CO₃ _____

11. Na₂O _____

12. KOH _____

13. Mg(OH)₂ _____

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B. Provide a formula for the following names:

1. Sodium fluoride _____

2. Calcium iodide _____

3. Sodium phosphate _____

4. Barium phosphate _____

5. Chromium(III) nitrate _____

6. Gold(I) carbonate _____

7. Potassium hydrogen carbonate _____

8. Nickel(I) bicarbonate _____

9. Cobalt(II) acetate _____

10. Ammonium hydrogen sulfate _____

11. Calcium oxide _____

12. Barium hydroxide _____

13. Copper(II) chloride _____

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C. Harder Set! Provide a chemical name for the following formulas:

1. Na_2S _____

2. $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$ _____

3. $\text{Fe}(\text{NO}_2)_2$ _____

4. MgSO_3 _____

5. NaHSO_3 _____

6. Na_2CrO_4 _____

7. $\text{Na}_2\text{Cr}_2\text{O}_7$ _____

8. CCl_4 _____

9. KClO_3 _____

10. $\text{Ca}(\text{ClO})_2$ _____

11. HNO_3 _____

12. $\text{HBr}_{(\text{aq})}$ _____

13. HBr _____

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D. Harder! Provide a formula for the following names:

1. Sodium permanganate _____

2. Beryllium chromate _____

3. Sodium sulfite _____

4. Calcium hydrogen phosphate _____

5. Chromium(III) chlorate _____

6. Sodium perchlorate _____

7. Sulfur pentachloride _____

8. Chlorine trioxide _____

9. Cobalt(III) cyanide _____

10. Potassium permanganate _____

11. Potassium carbonate _____

12. Hydrochloric acid _____

13. Phosphoric acid _____

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E. Still harder set! Provide a chemical name for the following formulas:

1. $\text{HClO}_{4(\text{aq})}$ _____

2. Na_2O_2 _____

3. $\text{HI}_{(\text{aq})}$ _____

4. $\text{HC}_2\text{H}_3\text{O}_{2(\text{aq})}$ _____

5. NaH _____

6. TiCl_4 _____

7. $\text{Cu}(\text{MnO}_4)_2$ _____

8. NH_4HSO_3 _____

9. $\text{MgSO}_4 \cdot 5\text{H}_2\text{O}$ _____

10. $\text{Ca}(\text{ClO}_3)_2$ _____

11. $\text{H}_2\text{Cr}_2\text{O}_7_{(\text{aq})}$ _____

12. $\text{H}_2\text{CO}_3_{(\text{aq})}$ _____

13. CO_2 _____

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F. Still harder! Provide a formula for the following names:

1. Hydrogen peroxide _____

2. Arsenic trichloride _____

3. Potassium chromate _____

4. Chromic acid _____

5. Potassium hypochlorite dihydrate _____

6. Carbon disulfide _____

7. Ammonia _____

8. Iron(III) dichromate _____

9. Chloric acid _____

10. Copper(II) permanganate _____

11. Sodium hydrogen phosphate _____

12. Magnesium sulfide _____

13. Methane _____