

AP Chemistry Summer 2005 Homework Test

Name these compounds:

1. HNO_3
2. BaSO_4
3. $(\text{NH}_4)_2\text{CO}_3$
4. Na_2S
5. KOH
6. CaSO_3
7. Na_3PO_4
8. H_2SO_4
9. NH_4OH
10. LiCH_3COO

Write the formula for each compound:

11. Sodium sulfate
12. Cobalt (II) iodide
13. Iron (III) oxide
14. Calcium nitrate
15. Ammonium acetate
16. Hydrobromic acid
17. Magnesium phosphate
18. Chromium(III) bromide

Circle the number of each compound (from both lists) that is soluble in water.

Answers

1. nitric acid, soluble
2. barium sulfate, insoluble
3. ammonium carbonate, soluble
4. sodium sulfide, soluble
5. potassium hydroxide, soluble
6. calcium sulfite, insoluble
7. sodium phosphate, soluble
8. sulfuric acid, soluble
9. ammonium hydroxide, soluble
10. lithium acetate, soluble
11. Na_2SO_4 , soluble
12. CoI_2 , soluble
13. Fe_2O_3 , insoluble
14. $\text{Ca}(\text{NO}_3)_2$, soluble
15. $\text{NH}_4\text{CH}_3\text{COO}$, soluble
16. HBr , soluble
17. $\text{Mg}_3(\text{PO}_4)_2$, insoluble
18. CrBr_3 , soluble