

EXERCISE 6

Chem 10

(Due in lab _____)

10 points

Name KEY
(last) (first)

Lab Section # _____ Lab Instructor _____

Below is a list of salts and covalent compounds. In the blank in column A, write "S" if the compound is soluble in water and "I" if the compound is not soluble in water. (To determine whether a given salt is soluble in water, consult your solubility rules for salts. To determine whether a given covalent compound is soluble in water you need to know if it is polar or nonpolar. Therefore, covalent compounds below are labeled to tell you that they are polar or nonpolar.)

In column B you are to indicate whether the given compound exists in aqueous (water) solution as ions, "I", or molecules, "M". If the compound is not soluble, the blank in column B should be left empty.

	A	B
1. Ag_3PO_4	I	
2. KHSO_3	S	I
3. CaI_2	S	I
4. CCl_4 (nonpolar)	I	
5. $\text{Mg}(\text{NO}_2)_2$	I	
6. CuCl_2	S	I
7. NH_4ClO_2	S	I
8. $\text{C}_6\text{H}_{12}\text{O}_6$ (polar)	S	M
9. ZnS	I	
10. PbSO_4	I	
11. FeCl_3	S	I
12. AgBr	I	
13. $\text{Co}(\text{C}_2\text{H}_3\text{O}_2)_3$	S	I
14. NiSO_4	S	I
15. C_6H_6 (nonpolar)	I	
16. CuF_2	I	
17. $\text{Ba}(\text{NO}_3)_2$	S	I
18. Na_2CO_3	S	I
19. $\text{C}_2\text{H}_6\text{O}$ (polar)	S	M
20. $\text{Li}_2\text{C}_2\text{O}_4$	S	I