

AP Chemistry Summer School Solubility Practice and Answer Key

Name _____

Please give the formula & then state whether each one is soluble (S) or insoluble (I).

- 1) Lead (II) sulfate _____
- 2) Calcium nitrate _____
- 3) Silver (I) acetate _____
- 4) Mercury (II) chloride _____
- 5) Barium sulfate _____
- 6) Ammonium phosphate _____
- 7) Iron (III) hydroxide _____
- 8) Sodium oxide _____
- 9) Aluminum oxide _____
- 10) Magnesium sulfide _____
- 11) Zinc (IV) sulfide _____
- 12) Aluminum chromate _____
- 13) Strontium chromate _____
- 14) Ammonium hydroxide _____
- 15) Ammonium cyanide _____
- 16) Lead (IV) carbonate _____
- 17) Copper (II) iodide _____
- 18) Nickel (III) sulfate _____
- 19) Nickel (III) sulfite _____
- 20) Silver (I) chromate _____
- 21) Magnesium bromide _____
- 22) Chromium (III) chlorate _____
- 23) Potassium phosphite _____
- 24) Beryllium hydroxide _____
- 25) Manganese (V) hydroxide _____
- 26) Sodium hydroxide _____
- 27) Barium sulfide _____
- 28) Zinc (II) dichromate _____
- 29) Ammonium oxalate _____
- 30) Silver (I) acetate _____

AP Chemistry Solubility Practice (Home School Summer School!)

Name **Key**

Please give the formula & then state whether each one is soluble (S) or insoluble (I).

1)	Lead (II) sulfate	PbSO_4	I
2)	Calcium nitrate	$\text{Ca}(\text{NO}_3)_2$	S
3)	Silver (I) acetate	$\text{AgC}_2\text{H}_3\text{O}_2$	S
4)	Mercury (II) chloride	HgCl_2	I
5)	Barium sulfate	BaSO_4	I
6)	Ammonium phosphate	$(\text{NH}_4)_3\text{PO}_4$	S
7)	Iron (III) hydroxide	$\text{Fe}(\text{OH})_3$	I
8)	Sodium oxide	Na_2O	S
9)	Aluminum oxide	Al_2O_3	I
10)	Magnesium sulfide	MgS	S
11)	Zinc (IV) sulfide	ZnS_2	I
12)	Aluminum chromate	$\text{Al}_2(\text{CrO}_4)_3$	S
13)	Strontium chromate	SrCrO_4	I
14)	Ammonium hydroxide	NH_4OH	S
15)	Ammonium cyanide	NH_4CN	S
16)	Lead (IV) carbonate	$\text{Pb}(\text{CO}_3)_2$	I
17)	Copper (II) iodide	CuI_2	S
18)	Nickel (III) sulfate	$\text{Ni}_2(\text{SO}_4)_3$	S
19)	Nickel (III) sulfite	$\text{Ni}_2(\text{SO}_3)_3$	I
20)	Silver (I) chromate	Ag_2CrO_4	I
21)	Magnesium bromide	MgBr_2	S
22)	Chromium (III) chlorate	$\text{Cr}(\text{ClO}_3)_3$	S
23)	Potassium phosphite	K_3PO_3	S
24)	Beryllium hydroxide	$\text{Be}(\text{OH})_2$	I
25)	Manganese (V) hydroxide	$\text{Mn}(\text{OH})_5$	I
26)	Sodium hydroxide	NaOH	S
27)	Barium sulfide	BaS	S
28)	Zinc (II) dichromate	ZnCr_2O_7	I
29)	Ammonium oxalate	$(\text{NH}_4)_2\text{C}_2\text{O}_4$	S
30)	Silver (I) acetate	See #3 (oopsie!)	

