

Naming Worksheet

(From http://www.palomar.edu/chemistry/docs/Name_of_Chemical_Compounds.html)

Name the following compounds:

1. ZnS zinc sulfide
2. MgCl₂ magnesium chloride
3. Ca(ClO₃)₂ calcium chlorate
4. CaSO₄ calcium sulfate
5. AgNO₃ silver nitrate
6. H₂S hydrogen sulfide
7. CaO calcium oxide
8. H₂CO₃ hydrogen carbonate
9. Mg₃(PO₄)₂ magnesium phosphate
10. KCl potassium chloride
11. K₂O potassium oxide
12. Al(NO₂)₃ aluminum nitrite
13. MgO magnesium oxide
14. SnI₂ tin(II) iodide
15. AsCl₅ arsenic(V) chloride
16. CuSO₃ copper sulfite
17. HF hydrogen fluoride
18. FeSO₄ iron(II) sulfate
19. SnCl₄ tin(IV) chloride
20. AsCl₃ arsenic(III) chloride
21. KCN potassium cyanide
26. CuCl₂ copper(II) chloride
27. PCl₅ phosphorus pentachloride
28. LiNO₂ lithium nitrite
29. KH₂PO₄ potassium dihydrogen phosphate
30. CuCN copper(I) cyanide
31. KHCO₃ potassium hydrogen carbonate
32. NaHSO₃ sodium hydrogen sulfite
33. Li₂HPO₄ lithium monohydrogen phosphate
34. H₃PO₃ hydrogen dihydrogen phosphate
35. MgSO₄ magnesium sulfate
36. Ca(IO₂)₂ calcium iodite **
37. SiO₂ silicon dioxide
38. CuCl copper(I) chloride
39. KClO₂ potassium chlorite
40. CaSO₃ calcium sulfite
41. NaBr sodium bromide
42. P₂O₃ diphosphorus trioxide
43. HClO hydrogen hypochlorite
44. NO₂ nitrogen dioxide
45. NaH sodium hydride
46. ZnS zinc sulfide

** IO₂²⁻ = iodite
CH30S

22. NH_4OH ammonium hydroxide 47. $\text{Pb}(\text{NO}_3)_2$ lead(II) nitrate
 23. $\text{Fe}(\text{ClO}_4)_3$ iron(III) perchlorate 48. H_2Se dihydrogen selenide
 24. HNO_2 hydrogen nitrite 49. H_3PO_4 hydrogen dihydrogen phosphate
 25. CS_2 carbon disulfide 50. CaH_2 calcium hydride

Write the formulas for the following compounds:

51. lithium chloride LiCl 76. strontium carbonate SrCO_3
 52. phosphoric acid _____ 77. calcium nitrate $\text{Ca}(\text{NO}_3)_2$
 53. boron trichloride BCl_3 78. disulfur dichloride S_2Cl_2
 54. ferric chloride _____ 79. tin (IV) oxide SnO_2
 55. carbon tetrachloride CCl_4 80. sodium bicarbonate NaHCO_3 *
 56. silver sulfide Ag_2S 81. strontium chlorate $\text{Sr}(\text{ClO}_3)_2$
 57. antimony trichloride SbCl_3 82. aluminum hydroxide $\text{Al}(\text{OH})_3$
 58. barium carbonate BaCO_3 83. cadmium nitrate $\text{Cd}(\text{NO}_3)_2$
 59. iodine monochloride ICl 84. diphosphorus trioxide P_2O_3
 60. aluminum nitride AlN 85. sodium hydride NaH
 61. lead sulfate PbSO_4 86. calcium nitride Ca_3N_2
 62. ammonium chloride NH_4Cl 87. sulfur trioxide SO_3
 63. hydrogen fluoride HF 88. aluminum nitrate $\text{Al}(\text{NO}_3)_3$
 64. hydrobromic acid _____ 89. silver oxide Ag_2O
 65. tin (II) bromide SnBr_2 90. ammonium phosphate $(\text{NH}_4)_3\text{PO}_4$
 66. cuprous oxide _____ 91. cupric sulfate _____
 67. calcium bicarbonate $\text{Ca}(\text{HCO}_3)_2$ * 92. lithium fluoride LiF

* bicarbonate is the same as hydrogen carbonate

68. copper (II) cyanide $Cu(CN)_2$ 93. sodium sulfate Na_2SO_4
69. cesium fluoride CsF 94. radium carbonate $RaCO_3$
70. zinc phosphate Zn_3PO_4 95. copper (II) oxide CuO
71. dinitrogen pentoxide N_2O_5 96. iron (III) sulfate $Fe_2(SO_4)_3$
72. iron (II) sulfate $FeSO_4$ 97. magnesium perchlorate $Mg(ClO_4)_2$
73. magnesium oxide MgO 98. potassium hypochlorite $KClO$
74. hydrogen chloride HCl 99. lithium hydride LiH
75. potassium cyanide KCN 100. potassium nitrate KNO_3