

Name: KEY

15 Pts.

## Chemistry Practice: Writing Chemical Formulas

Write a chemical formula for each substance.

- |                                                                    |                                |                                                                    |                           |
|--------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------|---------------------------|
| 1. <u>NaCl</u>                                                     | sodium chloride                | 39. <u>Ca(NO<sub>3</sub>)<sub>2</sub></u>                          | calcium nitrate           |
| 2. <u>N<sub>2</sub>O<sub>5</sub></u>                               | dinitrogen pentoxide           | 40. <u>SO<sub>3</sub></u>                                          | sulfur trioxide           |
| 3. <u>H<sub>2</sub>S</u>                                           | hydrosulfuric acid             | 41. <u>KCN</u>                                                     | potassium cyanide         |
| 4. <u>K<sub>2</sub>SO<sub>4</sub></u>                              | potassium sulfate              | 42. <u>Pb(NO<sub>3</sub>)<sub>2</sub></u>                          | lead(II) nitrate          |
| 5. <u>H<sub>2</sub>C<sub>2</sub>O<sub>4</sub></u>                  | oxalic acid                    | 43. <u>H<sub>2</sub>S</u>                                          | hydrogen sulfide          |
| 6. <u>Ag<sub>2</sub>C<sub>2</sub>H<sub>3</sub>O<sub>2</sub></u>    | silver acetate                 | 44. <u>CoCl<sub>2</sub></u>                                        | cobalt(II) chloride       |
| 7. <u>Cr(NO<sub>3</sub>)<sub>3</sub></u>                           | chromium(III) nitrate          | 45. <u>SF<sub>6</sub></u>                                          | sulfur hexafluoride       |
| 8. <u>H<sub>2</sub>CrO<sub>3</sub></u>                             | chromous acid                  | 46. <u>Ca<sub>3</sub>N<sub>2</sub></u>                             | calcium nitride           |
| 9. <u>(NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub></u>               | ammonium carbonate             | 47. <u>CuI</u>                                                     | copper(I) iodide          |
| 10. <u>Ca(OH)<sub>2</sub></u>                                      | calcium hydroxide              | 48. <u>SiO<sub>2</sub></u>                                         | silicon dioxide           |
| 11. <u>H<sub>2</sub>C<sub>4</sub>H<sub>4</sub>O<sub>6</sub></u>    | tartaric acid                  | 49. <u>Sn(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>4</sub></u> | tin(IV) acetate           |
| 12. <u>Hg(NO<sub>3</sub>)<sub>2</sub></u>                          | mercury(II) nitrate            | 50. <u>CCl<sub>4</sub></u>                                         | carbon tetrachloride      |
| 13. <u>N<sub>2</sub>O</u>                                          | dinitrogen monoxide            | 51. <u>Cu<sub>2</sub>S</u>                                         | cupric sulfide            |
| 14. <u>Fe<sub>2</sub>O<sub>3</sub></u>                             | ferric oxide                   | 52. <u>Pb<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub></u>              | lead(II) phosphate        |
| 15. <u>Pb(ClO<sub>2</sub>)<sub>2</sub></u>                         | lead(II) chlorate              | 53. <u>XeCl<sub>4</sub></u>                                        | xenon tetrachloride       |
| 16. <u>(NH<sub>4</sub>)<sub>3</sub>PO<sub>4</sub></u>              | ammonium phosphate             | 54. <u>Rb<sub>2</sub>O</u>                                         | rubidium oxide            |
| 17. <u>ZnCl<sub>2</sub></u>                                        | zinc chloride                  | 55. <u>MgSe</u>                                                    | magnesium selenide        |
| 18. <u>Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub></u>              | calcium phosphate              | 56. <u>NH<sub>4</sub>Cl</u>                                        | ammonium chloride         |
| 19. <u>OF<sub>2</sub></u>                                          | oxygen difluoride              | 57. <u>Fe(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>3</sub></u> | iron(III) acetate         |
| 20. <u>NaN<sub>3</sub></u>                                         | sodium azide                   | 58. <u>K<sub>2</sub>C<sub>2</sub>O<sub>7</sub></u>                 | potassium dichromate      |
| 21. <u>Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></u>              | iron(III) sulfate              | 59. <u>PBr<sub>3</sub></u>                                         | phosphorous tribromide    |
| 22. <u>H<sub>2</sub>AsO<sub>3</sub></u>                            | arsenous acid                  | 60. <u>Na<sub>3</sub>PO<sub>3</sub></u>                            | sodium phosphite          |
| 23. <u>Cr<sub>2</sub>O<sub>3</sub></u>                             | chromium(III) oxide            | 61. <u>Na<sub>3</sub>PO<sub>4</sub></u>                            | sodium phosphate          |
| 24. <u>N<sub>2</sub>O<sub>4</sub></u>                              | dinitrogen tetroxide           | 62. <u>Hg(NO<sub>3</sub>)<sub>2</sub></u>                          | mercury(II) nitrate       |
| 25. <u>NH<sub>4</sub>NO<sub>3</sub></u>                            | ammonium nitrate               | 63. <u>LiHCO<sub>3</sub></u>                                       | lithium bicarbonate       |
| 26. <u>AuBr<sub>3</sub></u>                                        | gold(III) bromide              | 64. <u>CrF<sub>3</sub></u>                                         | chromium(III) fluoride    |
| 27. <u>CO</u>                                                      | carbon monoxide                | 65. <u>PbI<sub>2</sub></u>                                         | plumbous iodide           |
| 28. <u>K<sub>2</sub>CO<sub>3</sub></u>                             | potassium carbonate            | 66. <u>H<sub>2</sub>SO<sub>3</sub></u>                             | sulfurous acid            |
| 29. <u>HIO<sub>3</sub></u>                                         | iodic acid                     | 67. <u>SnF<sub>2</sub></u>                                         | stannous fluoride         |
| 30. <u>CsCl</u>                                                    | cesium chloride                | 68. <u>H<sub>2</sub>CrO<sub>4</sub></u>                            | mercuric chromate         |
| 31. <u>Ni(MnO<sub>4</sub>)<sub>2</sub></u>                         | nickel(II) permanganate        | 69. <u>KNO<sub>3</sub></u>                                         | potassium nitrate         |
| 32. <u>Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></u>              | aluminum sulfate               | 70. <u>SrCl<sub>2</sub></u>                                        | strontium chloride        |
| 33. <u>Al<sub>2</sub>(SO<sub>3</sub>)<sub>3</sub></u>              | aluminum sulfite               | 71. <u>P<sub>4</sub>O<sub>10</sub></u>                             | tetraphosphorous decoxide |
| 34. <u>Ba(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>2</sub></u> | barium acetate                 | 72. <u>KNO<sub>3</sub></u>                                         | potassium nitrate         |
| 35. <u>Mn(OH)<sub>3</sub></u>                                      | manganese(III) hydroxide       | 73. <u>KNO<sub>2</sub></u>                                         | potassium nitrite         |
| 36. <u>KH<sub>2</sub>PO<sub>4</sub></u>                            | potassium dihydrogen phosphate | 74. <u>K<sub>3</sub>N</u>                                          | potassium nitride         |
| 37. <u>HF</u>                                                      | hydrofluoric acid              | 75. <u>CaO</u>                                                     | calcium oxide             |
| 38. <u>Al(BrO<sub>3</sub>)<sub>3</sub></u>                         | aluminum bromate               | 76. <u>Fe(IO<sub>4</sub>)<sub>2</sub></u>                          | iron(II) periodate        |