Chemistry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_

Ionic compounds Names and Solubility Worksheet #1

Write the formula for each compound and calculate its molar mass. Is it soluble or insoluble? According to which solubility role?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Formula | gfm | soluble? (see table F) | Which solubility rule? |
| potassium sulfate |  |  |  | sulfate rule |
| barium chloride |  |  |  | halides rule |
|  | BaSO4 |  |  | sulfate rule exception |
|  | FeCl3 |  |  |  |
| copper (II) sulfate with five waters |  |  |  |  |
| iron (III) hydroxide |  |  |  |  |
|  | NaCl |  |  |  |
|  | Al(OH)3 |  |  |  |
| lead (II) sulfate |  |  |  |  |
| aluminum sulfate |  |  |  |  |
|  | Cu(NO3)2 |  |  |  |
|  | MgBr2 |  |  |  |
| calcium carbonate |  |  |  |  |
| sulfuric acid (see table K) |  |  |  |  |