

Acids Wkst

1. Write the rules for naming acids and writing acid formulas:

-ide ending becomes hydro___ic acid (chloride, Cl^- , HCl is hydrochloric acid)

-ate becomes ___ic acid (sulfate, SO_4^{2-} , H_2SO_4 is sulfuric acid)

-ite becomes ___ous acid (sulfite, SO_3^{2-} , H_2SO_3 is sulfurous acid)

2. Give the names of these acids:

- a. HNO_2 nitrous acid
- b. HMnO_4 permanganic acid
- c. HCN hydrocyanic acid
- d. H_2S hydrosulfuric acid
- e. HClO_4 perchloric acid

3. Give the formulas of these acids:

- a. Carbonic acid H_2CO_3
- b. Sulfurous acid H_2SO_3
- c. Phosphoric acid H_3PO_4
- d. Sulfuric acid H_2SO_4
- e. Hydroiodic acid HI
- f. Acetic acid $\text{HC}_2\text{H}_3\text{O}_2$
- g. Nitrous acid HNO_2
- h. Chlorous acid HClO_2