

## Nomenclature Worksheet Acids

1. HI

2.  $\text{H}_3\text{PO}_4$

3.  $\text{H}_2\text{SO}_3$

4.  $\text{H}_2\text{S}$

5.  $\text{H}_3\text{PO}_3$

6. HBr

7.  $\text{HClO}_4$

8. HBrO

9.  $\text{H}_3\text{AsO}_4$

10.  $\text{HNO}_3$

11.  $\text{HFO}_2$

12. Nitrous Acid

13. Carbonic Acid

14. Hydrosulfuric Acid

15. Hydophosphoric Acid

16. Perflouric Acid

17. Hypochlorous Acid

18. Sulfuric Acid

#### IV. Nomenclature: Acids

A Acid – a compound that gives off Hydrogen ions when dissolved in water.

B Acids: General form HX(Hydrogen is ALWAYS the cation)

C Anion Choices

- 1 The anion X ends in "ide" (binary acids) HCl hydrochloric acid
  - a write "hydro"
  - b write the anion name changing "ide" to "ic"
  - c write the word acid
- 2 The anion X ends in "ite"(ternary acid) HClO<sub>2</sub> chlorous acid HClO hypochlorous acid
  - a write the anion name changing "ite" to "ous"
  - b write the word acid
- 3 The anion X ends in "ate"(ternary acid) H<sub>2</sub>SO<sub>4</sub> sulfuric acid HClO<sub>4</sub> perchloric acid
  - a write the anion name changing "ate" to "ic"
  - b write the word acid

## Nomenclature Worksheet Acids Answers

1. HI hydroiodic acid
2.  $\text{H}_3\text{PO}_4$  phosphoric acid
3.  $\text{H}_2\text{SO}_3$  sulfurous acid
4.  $\text{H}_2\text{S}$  hydrosulfuric acid
5.  $\text{H}_3\text{PO}_3$  phosphorous acid
6. HBr hydrobromic acid
7.  $\text{HClO}_4$  perchloric acid
8. HBrO hypobromous acid
9.  $\text{H}_3\text{AsO}_4$  arsenic acid
10.  $\text{HNO}_3$  nitric acid
11.  $\text{HFO}_2$  fluorous acid
12. Nitrous Acid  $\text{HNO}_2$
13. Carbonic Acid  $\text{H}_2\text{CO}_3$
14. Hydrosulfuric Acid  $\text{H}_2\text{S}$
15. Hydophosphoric Acid  $\text{H}_3\text{P}$
16. Perflouric Acid  $\text{HFO}_4$
17. Hypochlorous Acid  $\text{HClO}$
18. Sulfuric Acid  $\text{H}_2\text{SO}_4$