

# Naming Acids

# Type 1: Binary Acids

- Only H and another element are present.
- The anion does NOT contain oxygen.
- Ex:  $\text{HBr}_{(aq)}$  (means HBr dissolved in water)
- Prefix: hydro-                      Suffix: -ic
  - Hydrobromic acid
- $\text{H}_2\text{S}_{(aq)} =$  Hydrosulfuric acid

# Type 2: Oxyacids

- The anion contains oxygen
- If anion ends in **ATE** - suffix is **ic**

Ex:  $\text{H}_2\text{SO}_{4(\text{aq})}$  sulphuric acid  
( \*\*\* do not use hydro)

- $\text{HC}_2\text{H}_3\text{O}_{2(\text{aq})}$  Acetic acid

# Writing Formulas of Oxyacids

## The "ic" acids

H <sub>1</sub>	N	O <sub>3</sub>	Nitric Acid
H <sub>1</sub>	Cl	O <sub>3</sub>	Chloric Acid
H <sub>2</sub>	C	O <sub>3</sub>	Carbonic Acid
H <sub>2</sub>	S	O <sub>4</sub>	Sulfuric Acid
H <sub>3</sub>	P	O <sub>4</sub>	Phosphoric Acid

## Type 2: Oxyacids

- If the anion ends in **ITE** – the suffix is **ous**



Note: If the anion is a **per...ate** the acid is a **per...ic** acid



If the anion is a **hypo...ite** the acid is a **hypo...ous** acid



$\text{HNO}_4(\text{aq})$  Pernitric acid

$\text{HNO}_3(\text{aq})$  Nitric acid

$\text{HNO}_2(\text{aq})$  Nitrous acid

$\text{HNO}(\text{aq})$  Hyponitrous acid

# Name these!

