

Naming Acids Key

1. **Binary Acids** (H + 1 other element)
(H + 1 polyatomic ion w/o oxygen)
- Starts with “hydro”
 - Name second element, dropping the last 3 letters and adding “ic”

Ex: HCl _____ **hydrochloric acid** _____
HBr _____ **hydrobromic acid** _____
HF _____ **hydrofluoric acid** _____
HI _____ **hydroiodic acid** _____

2. **Oxyacids** (H + polyatomic ions w/oxygen)

Identify oxyanion

- If poly -ion ends in “ate” → name ends in “ic”
- If poly -ion ends in “ite” → name ends in “ous”
- Name ends in “acid”

Ex: H_2SO_4 _____ **sulfuric acid** _____

Ex: H_2SO_3 _____ **sulfurous acid** _____

Ex: H_2CO_3 _____ **carbonic acid** _____

Ex: HNO_3 _____ **nitric acid** _____

Ex: HNO_2 _____ **nitrous acid** _____

Ex: H_3PO_4 _____ **phosphoric acid (need to add the “or” back in)** _____

Ex: HClO_3 _____ **chloric acid** _____

Ex: $\text{HC}_2\text{H}_3\text{O}_2$ _____ **acetic acid** _____