

CONCEPT: NAMING IONIC HYDRATES

Ionic Hydrates

- Ionic compounds linked to at least one molecule of H_2O .



Rules for Naming Ionic Hydrates

STEPS 0 to 3: Same rules as naming ionic compounds.

STEP 4: The H_2O portion will be called _____.

- ☐ To describe the number of water molecules in a hydrate we use the numeral prefixes.

Numerical Prefixes				
Mono ___	Di ___	Tri ___	Tetra ___	Penta ___
Hexa ___	Hepta ___	Octa ___	Nona ___	Deca ___

EXAMPLE: Name the following ionic hydrate: $\text{PbO}_2 \cdot 5 \text{H}_2\text{O}$

PRACTICE: Give the systematic name from the given formula: $\text{K}_2\text{Cr}_2\text{O}_7 \cdot 3 \text{H}_2\text{O}$

PRACTICE: Write the chemical formula for the following compound: Calcium selenide hexahydrate