Soluble salts: Worksheet 4.7.2

Equations

Salt names have two parts – the first part comes from the base or carbonate used to make it; the second part comes from the acid used. For example, when **copper** oxide reacts with **sulf**uric acid, the salt made is **copper sulfate**:

* **Chlor**ides are made using hydro**chlor**ic acid.
* **Sulf**ates are made using **sulf**uric acid.
* **Nitr**ates are made using **nitr**ic acid.

Insoluble bases react like copper oxide:

* **Cu**O + H2**SO4** → **CuSO4** + H2O
* **Cu**O + **2**H**Cl** → **CuCl2** + H2O

Carbonates react like copper carbonate:

* **Cu**CO3 + H2**SO4** → **CuSO4** + H2O + CO2
* **Cu**CO3 + **2**H**Cl** → **CuCl2** + H2O + CO2

Write symbol equations for the reactions that occur between these pairs of reactants.

1. **magnesium** oxide + hydro**chlori**c acid
2. **zinc** oxide + **sulf**uric acid
3. **magnesium** oxide + **sulf**uric acid
4. **calcium** carbonate + **sulf**uric acid
5. **zinc** carbonate + hydro**chlor**ic acid
6. **magnesium** carbonate + **sulf**uric acid
7. **magnesium** carbonate + hydro**chloric** acid