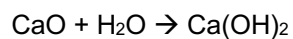




## **Reactions of Group 2 Compounds**

- **Group 2 oxides with water**

Group 2 oxides react exothermically with water to form the metal hydroxide, producing an alkaline solution, pH 9-14



Alkalinity increases down the group as the hydroxides become more soluble.

## **Physical properties of group 2 elements and their compounds**

**Elements** are metals so good thermal and electrical conductors. They are harder and denser than group 1 metals. **Compounds** are white with high melting points because they are ionic.

## **Uses of group 2 elements and their compounds**

Calcium hydroxide (an alkali) is used as a solid in agriculture to neutralise acid soils.

Magnesium hydroxide (a weak alkali) and calcium carbonate are used in indigestion tablets as an antacid.