

# CAIE Chemistry A-level

## 10: Group 2

### Definitions

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## Definitions and Concepts for CAIE Chemistry A-level Group 2

**CO<sub>3</sub><sup>2-</sup>**: The formula for a carbonate ion.

**NO<sub>3</sub><sup>-</sup>**: The formula for a nitrate ion.

**OH<sup>-</sup>**: The formula for a hydroxide ion.

**Solubility**: The ability for a given substance to dissolve in a solvent. Solubility of the Group 2 hydroxides increases down the group and solubility of the Group 2 sulfates decreases down the group.

**Thermal decomposition**: A reaction in which a chemical substance is broken down by heating.

**Thermal stability trend**: As you go down the group more heat is required for the thermal decomposition of Group 2 nitrates and carbonates because the ions increase in size and therefore have greater thermal stability.

