

Group 2

Chemistry

The alkaline earth metals, and the solubility trends.

The two opposing solubility trends.

Compound	Down the group
Hydroxides	Solubility increases
Sulfates	Solubility decreases
Reactivity with water	Increases
Ionisation energy	Decreases
Thermal stability of carbonates	Increases

Barium sulfate is insoluble, which is why acidified barium chloride is the test for sulfate ions — and why it is safe as a medical 'meal'.