

Experiment No.1

Determination the ratio of water of hydration in crystalied $\text{BaCl}_2 \cdot \text{XH}_2\text{O}$

1- What are the conditions required in a material that water crystallization can be determined? Give an example.?

A\ 1- Water is the main part to be volatilized only

2- When the composition of the precipitate is not changed by oxidation or hydrolysis etc. like $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$

2- Why empty Crucibles need to be heated?

A\ To get rid of the suspended materials in the crucible.

3- Define crystallized materials? Can some of them be used in chemical analyzes?

A\ Crystallized materials are solid materials with regular crystalline forms that are used as reagents after converting them into liquid materials, which are used in liquid state not in solid state.

4- What is the purpose of the crucible cooling after heating in a desiccator?

A\ To get rid of moisture.