

SUPERSATURATION

Meaning: Supersaturation is the condition in which a solution contains more solute than it can typically dissolve at a specific temperature, often leading to crystallization.

1. Supersaturation occurs when a solution contains more solute than it can normally hold at a given temperature.
2. The phenomenon of supersaturation can lead to the formation of crystals in a solution.
3. In many chemical processes, achieving supersaturation is a critical step for successful precipitation.
4. Supersaturation can be observed in nature, such as when water vapor condenses into cloud droplets.
5. Understanding the principles of supersaturation is essential for industries like pharmaceuticals and materials science.

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