

## Crystallization Quiz Answer Key PDF

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**Which factor directly affects the solubility and rate of crystallization?**

- A. Pressure
- B. Temperature ✓**
- C. Color
- D. Viscosity

**What is the term for the growth of formed nuclei into larger crystals?**

- A. Diffusion
- B. Crystal Growth ✓**
- C. Sedimentation
- D. Nucleation

**What are challenges in the crystallization process? (Select all that apply)**

- A. Control of crystal size and shape ✓**
- B. Avoidance of impurities ✓**
- C. Increasing solution color
- D. Environmental factors ✓**

**Which type of crystallization involves removing the solvent through evaporation?**

- A. Cooling Crystallization
- B. Precipitation
- C. Evaporative Crystallization ✓**
- D. Fractional Crystallization

**Which types of crystallizers are commonly used? (Select all that apply)**

- A. Batch crystallizers ✓
- B. Continuous crystallizers ✓
- C. Vacuum crystallizers ✓
- D. Rotary evaporators

**Which of the following is a common method of crystallization?**

- A. Distillation
- B. Cooling ✓
- C. Filtration
- D. Sedimentation

**What is the initial stage of crystallization called?**

- A. Precipitation
- B. Evaporation
- C. Nucleation ✓
- D. Condensation

**In which industry is crystallization particularly important for product quality?**

- A. Textile
- B. Pharmaceutical ✓
- C. Automotive
- D. Construction

**What is the process called when crystals form from a supersaturated solution?**

- A. Distillation
- B. Crystallization ✓
- C. Filtration
- D. Sedimentation

**Which processes are involved in crystallization? (Select all that apply)**

- A. Nucleation ✓
- B. Evaporation

**C. Crystal Growth** ✓

D. Filtration

**What is the primary purpose of crystallization in industrial applications?**

A. Color enhancement

**B. Purification and separation** ✓

C. Increasing solubility

D. Reducin temperature

**What factors can affect the crystallization process? (Select all that apply)**

**A. Temperature** ✓

**B. Concentration** ✓

**C. Purity of solvent and solute** ✓

D. Color of the solution

**Which of the following are applications of crystallization? (Select all that apply)**

**A. Sugar refinement** ✓

B. Textile dyein

**C. Salt production** ✓

**D. Pharmaceutical manufacturing** ✓

**Which of the following are types of crystallization? (Select all that apply)**

**A. Cooling Crystallization** ✓

B. Distillation

**C. Evaporative Crystallization** ✓

**D. Precipitation** ✓