

Crystallization Quiz PDF

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Which factor directly affects the solubility and rate of crystallization?

- Pressure
- Temperature
- Color
- Viscosity

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

- Diffusion
- Crystal Growth
- Sedimentation
- Nucleation

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

- Control of crystal size and shape
- Avoidence of impurities
- Increasing solution color
- Environmental factors

Which type of crystallization involves removing the solvent through evaporation?

- Cooling Crystallization
- Precipitation
- Evaporative Crystallization
- Fractional Crystallization

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

- Batch crystallizers
- Continuous crystallizers

- Vacuum crystallizers
- Rotary evaporators

Which of the following is a common method of crystallization?

- Distillation
- Cooling
- Filtration
- Sedimentation

What is the initial stage of crystallization called?

- Precipitation
- Evaporation
- Nucleation
- Condensation

In which industry is crystallization particularly important for product quality?

- Textile
- Pharmaceutical
- Automotive
- Construction

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

- Distillation
- Crystalization
- Filtration
- Sedimentation

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

- Nucleation
- Evaporation
- Crystal Growth
- Filtration

What is the primary purpose of crystallization in industrial applications?

- Color enhancement
- Purification and separation
- Increasing solubility
- Reducin temperature

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

- Temperature
- Concentration
- Purity of solvent and solute
- Color of the solution

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

- Sugar refinement
- Textile dyein
- Salt production
- Pharmaceutical manufacturing

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

- Cooling Crystallization
- Distillation
- Evaporative Crystallization
- Precipitation