

Worksheet: Crystallization



Q1: Which of the following is **not** a method for increasing the crystallization rate?

- A Scratching the inside of the flask
- B Gravity filtration
- C Cooling the flask
- D Adding a second solvent
- E Evaporation of solvent

Q2: When performing a recrystallization, which of the following steps is not required?

- A The solution is left to cool.
- B Unwanted solutions are disposed of safely.
- C The hot solution is filtered.
- D The crude material is fully dissolved.
- E Recrystallized material is washed.

Q3: When applied to a solution, which of the following techniques could increase the purity of the resulting crystals?

- A Evaporation of solvent
- B Scratching the inside of the flask
- C Gravity filtration
- D Adding a seed crystal
- E Cooling

Q4: When recrystallizing a compound, for what purpose might the side of the flask be scratched with a glass rod?

- A To accelerate primary nucleation
- B To accelerate secondary nucleation
- C To warm the solution
- D To accelerate the growth of existing crystals
- E To mix the solution

Q5: Which of the following pieces of apparatus is not typically used in recrystallizations?

