

## Answer to Question #61506, Chemistry / Other

4. Which of these properties is considered during recrystallization process?

Temperature

Mass

Volume

Density

5. A cube of copper was found to have a mass of 630 g. What are the dimensions of the cube given the density of copper to be  $8.94 \text{ g/cm}^3$ .

70.47 cm

8.39 cm

4.13 cm

8.26 cm

6. Why is ethanol not a suitable solvent for extracting aqueous solutions?

Due to its high boiling point

Due to its solubility in water

Due to its flammability

All of the above

**Answer:**

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$$\begin{aligned}\rho &= \frac{m}{V} \\ V &= \frac{m}{\rho} = a^3 \\ a &= \sqrt[3]{\frac{m}{\rho}} = \sqrt[3]{\frac{630 \text{ g}}{8.94 \text{ g/cm}^3}} = 4.13 \text{ cm}\end{aligned}$$

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