

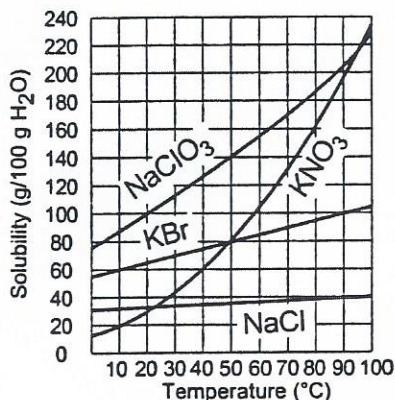
Chapter 3
STUDY GUIDE

3.2 CHANGES IN PROPERTIES

Write T for true and F for false. If a statement is false, change the underlined word or phrase and write your correction on the blank.

- _____ 1. A change in which the same substance remains after the change is called a chemical change.
- _____ 2. Melting is a physical change.
- _____ 3. Evaporating water from a saltwater solution is a chemical change.
- _____ 4. A gaseous substance that forms from a solution is called a precipitate.
- _____ 5. The reaction of iron with hydrochloric acid is a chemical change.

Use the figure to answer the following questions.



6. What is the solubility of sodium chloride at 30°C? _____
7. Which is more soluble at 90°C: KNO₃ or NaClO₃? _____
8. At what temperature are the solubilities of KNO₃ and KBr the same? _____
9. At what temperature will 200 g of NaClO₃ dissolve in 100 g of H₂O? _____

Identify each property below as either a chemical property or a physical property. For each physical property, state whether it is extensive or intensive.

- | | |
|---------------------------------|------------------------|
| 10. color _____ | 15. conductivity _____ |
| 11. width _____ | 16. luster _____ |
| 12. melting point _____ | 17. flammability _____ |
| 13. density _____ | 18. weight _____ |
| 14. resistance to an acid _____ | |