

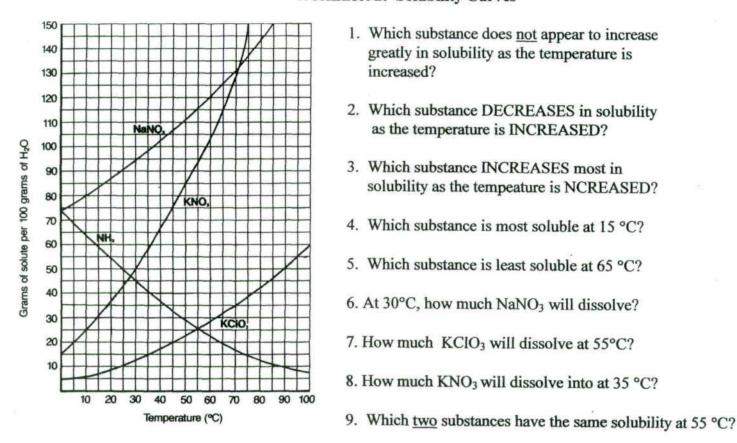
Physical Science Mixtures Worksheet 1: Solubility Curves of KNO3 and NaCl

- 1. Is there more KNO3 or NaCl dissolved at 5 ° C?
- 2. Is there more KNO3 or NaCl dissolved at 55 ° C?
- 3. How many grams of NaCl are dissolved at 40 °C?
- 4. How many grams of NaCl are dissolved at 90 °C?
- 5. At what temperature could you dissolve 70 g of KNO3?
- 6. At what temperature could you disslove 70 g of NaCl?
- 7. What happens to the solubility of both NaCl and KNO₃ as the temperature increases?
- 8. To make an UNSATURATED solution, what's the most NaCl you could put in at 10 °C?
- 9. To make an UNSATURATED solution, what's the most NaCl you could put in at 40 °C?
- 10. To make a SATURATED solution, what's the least KNO3 you could put in at 70 °C?



Period

Integrated Physics and Chemistry Solutions Worksheet 2: Solubility Curves



10. What is the most KNO₃ that can be dissolved at 70 °C?

- 11. What is the most KClO₃ that can be dissolved at 60 °C?
- 12. Can 100 ml of water hold more KClO3 or KNO3 at 70 °C?
- 13. At 50°C, can 100 ml of water hold more NH₃ or KClO₃?
- 14. At what temperature would you need 100 ml of water to dissolve 50 g of NH₃?
- 15. At what temperature would you need 100 ml of water to dissolve 70 g of NH₃?
- 16. At what temperature would you need 100 ml of water to dissolve 70 g of KNO3?
- 17. Would you be able to dissolve 70 g of KClO3 into 100 ml of water at 60°C?
- 18. Would you be able to dissolve (all / some / none) of 40 g of NH₃ into 100 ml of water at 55°C?
- 19. Would you be able to dissolve (all / some / none) of 90 g of KClO3 into 100 ml of water at 80°C?
- 20. Would you be able to dissolve (all / some / none) of 20 g of KNO3 into 100 ml of water at 50°C?

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