

## **SOLUBILITY GRAPH B**



Answer the following questions based on Solubility graph B

- I. At which temperature do KBr and KNO<sub>3</sub> have the same solubility? **approximately 50 Celcius**
- 2. At which temperature do NaCl and KNO<sub>3</sub> have the same solubility? approximately 27.5 Celcius
- 3. At which temperature do NaClO<sub>3</sub> and KNO<sub>3</sub> have the same solubility? approximately 95 Celcius
- 4. At 60°C, how much KNO<sub>3</sub> can 100 g of water hold? **approximately 110g**
- 5. At 80°C, how much NaCl can 100 g of water hold? approximately 40g
- 6. At 0°C, how much KBr can 100 g of water hold? approximately 60g
- 7. A solution of NaCl contains 50g at 70° C. Is the solution saturated, unsaturated, or supersaturated ? supersaturated [point falls above the saturation curve]
- 8. A solution of KBr contains 100g at 95 ° C. Is the solution saturated, unsaturated, or supersaturated ?
  Saturated [rests right on the saturation curve]
- 9. Which compound's solubility changes very little with temperature? NaCl
- 10. Which compound's solubility changes the most with temperature?  $${\rm KNO}_3$$
- 11. Which compound has the greatest solubility at 60°C? NaCIO<sub>3</sub>
- 12. Which compound has the least solubility at 20° C?  $${\rm KNO}_3$$