

Data Tables

Data Table 1. Effect of Stirring on the Rate of Dissolving

	Observations	Number of Inversions Required
Uninverted Solution		Test tube not inverted
Inverted Solution		

Data Table 2. Effect of Temperature on the Rate of Dissolving

	Temperature (°C)	Observations	Number of Inversions Required
Cold Solution			
Room Temperature Solution			
Warm Solution			

Data Table 3. Effect of Surface Area on the Rate of Dissolving

	Observations	Number of Inversions Required
Rock Salt		
Salt Crystal		
Powdered Salt		

Data Table 4. Effect of Already Dissolved Solute on the Rate of Dissolving

	Observations	Number of Inversions Required
Solution Containing No Already Dissolved Solute		
Solution Containing Already Dissolved Solute		

Post-Lab Questions

1. What is the effect of inverting the test tube on the rate of dissolving? Explain.
2. What is the effect of temperature on the rate of dissolving? Explain.
3. What is the effect of surface area on the rate of dissolving? Explain.
4. What is the effect of already dissolved solute on the rate of dissolving? Explain.
5. Why is solvation a surface phenomenon?
6. Give three examples of solutions you encounter on an everyday basis. List the solute and solvent for both examples.