

Name: _____

Section: _____

Partner's Name: _____

Date: _____

**INDIRECT DETERMINATION OF A THERMODYNAMIC QUANTITY
DATA SHEET**

Mass of KNO_3 , g _____

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6
Total volume of water added, mL	5.00	6.00	8.00	10.00	15.00	20.00
Temperature of saturated solution, K						
$1 / T, \text{K}^{-1}$						
Solubility of KNO_3 , g $\text{KNO}_3/100 \text{ g H}_2\text{O}$						
$\text{Ln}S$						
Slope of van't Hoff Plot						
Molar enthalpy of solution, $\text{kJ}\cdot\text{mol}^{-1}$						