

Name: _____

Section _____

Partner's Name _____

Date _____

Chemical Equilibrium II: The Solubility Product Data Sheet

[NaOH], M _____

Temperature, °C _____

1. Solvent: Distilled H₂O

Trial 1

Trial 2

	<u>Trial 1</u>	<u>Trial 2</u>
Final burette reading, mL		
Initial burette reading, mL		
Volume of NaOH used, mL		
Moles of NaOH used, mol		
Moles of $\text{HC}_4\text{H}_4\text{O}_6^-$, mol		
Volume of $\text{KHC}_4\text{H}_4\text{O}_6$, L		
Solubility of $\text{KHC}_4\text{H}_4\text{O}_6$, M		
K_{sp} of $\text{KHC}_4\text{H}_4\text{O}_6$		

2. Solvent: KNO_3 (aq)

[KNO_3] solvents	0.0100 M	0.0200 M	0.0300 M	0.0400 M
Final burette reading, mL				
Initial burette reading, mL				
Volume of NaOH used, mL				
Moles of NaOH used, mol				
Moles of $\text{HC}_4\text{H}_4\text{O}_6^-$, mol				
Volume of $\text{KHC}_4\text{H}_4\text{O}_6$, mL				
$[\text{HC}_4\text{H}_4\text{O}_6^-]$, M				
$[\text{K}^+]_{\text{Tot}}$, M				
K_{sp} of $\text{KHC}_4\text{H}_4\text{O}_6$				

Average K_{sp} for all titrations (including those with distilled water as the solvent) _____