

Name _____ Section _____

Partner _____

CHM 115 Lab 13 Report Form

Thermodynamics of the Solubility of Borax

Concentration of HCl: _____

Saturated Solution Data:

Tube	1	2	3	4	5
Temperature	_____	_____	_____	_____	_____
mL HCl	_____	_____	_____	_____	_____
$[B_4O_5(OH)_4^{2-}]$	_____	_____	_____	_____	_____
$[Na^+]$	_____	_____	_____	_____	_____
K_{sp}	_____	_____	_____	_____	_____
$\ln K_{sp}$	_____	_____	_____	_____	_____
1/Temperature	_____	_____	_____	_____	_____

Attach graph and all sample calculations:

Slope _____ ΔH° _____

Intercept _____ ΔS° _____