

NAME _____ DATE _____ SECTION _____

INSTRUCTOR _____ GRADE _____

EXPERIMENT 4: REPORT FOR THE HYDRATE EXPERIMENT

DATA

A. REVERSIBILITY OF HYDRATION

Give a summary of your observations on $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$:

B. DELIQUESCENT

<i>Compound</i>	<i>Observations</i>
$\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$	_____
$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	_____
$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	_____
CaCl_2	_____
NaOH	_____
K_2CrO_4	_____

C. DISTINGUISHING HYDRATES FROM NONHYDRATES

<i>Solid Compound</i>	<i>original color</i>	<i>water appears</i>	<i>color of residue</i>	<i>1 drop H₂O color change</i>	<i>3 ml H₂O water sol.</i>
sodium chloride	_____	_____	_____	_____	_____
nickel (II) sulfate	_____	_____	_____	_____	_____
cobalt (II) chloride	_____	_____	_____	_____	_____
copper (II) chloride	_____	_____	_____	_____	_____
aluminum sulfate	_____	_____	_____	_____	_____
sugar	_____	_____	_____	_____	_____
potassium dichromate	_____	_____	_____	_____	_____