06a Empirical Formula of a Hydrate Lab (5159641)

Question

1 2 3 4 5 6

Instructions

1.



2.

List the experimental procedure (stepwise) that should be followed in this lab (not the calculations).

3.	Question Details Water in a Hydrate Lab Data [2811742]
	a. Enter the experimental mass(from the balance) of the empty crucible: 40
	b. Enter the mass of the crucible plus the hydrated compound: 42
	c. Calculate the mass of the hydrated compound: 40
	d. Enter the mass of the crucible and compound after heating: 40
	e. Calculate the mass of the anhydrous compound:
	f. Calculate the mass of the water lost to the atmosphere:
	g. Calculate the number of water molecules in the hydrated compound formula to three sig figs: 40
4.	Question Details Water in a Hydrate Lab #1 [2811746]
	Show your calculations for how to determine the number of water molecules.
5.	Ouestion Details Water in a Hydrate Lab #3 [2811744]
	Which of the following are valid reasons why you should allow the dish and sample to cool before finding their mass using the balance?
	The balance will not work on hot objects.
	The apparent mass will be slightly different due to convection currents.
	You might burn your fingers.
	You could damage the balance.
	Mass changes with temperature.

6.	Question Details Water in a Hydrate Lab #4 [2811747]
	Which of the following are errors which could cause your final answer(number of water molecules) to be higher than the accepted value?
	misreading the balance
	some of the sample splattering out of the dish during heating
	not heating the sample long enough
	rehydration of the sample during cooling
	heating the sample too long and decomposing the anhydrous salt
	some of the salt sticking to the spatula during the crushing process
	convection currents (causing lift) from hot crucible when weighing

Assignment Details

Name (AID): 06a Empirical Formula of a Hydrate Lab (5159641) Submissions Allowed: 5 Category: Homework Code: Locked: Yes Author: Ryan, Matt (mryan@allsaintsschool.org) Last Saved: Dec 1, 2017 09:16 AM CST Group: Coronado High School Randomization: Person Which graded: Last

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