

CHEM 103 Lab Exam 4 (100 out of 100) Questions and Verified Answers (Portage Learning)

Question 1

10 / 10 pts

1. (3 points) What does it mean that the heat of a reaction is an extensive property?

2. (3 points) Does the following reaction give off heat or absorb heat? Explain briefly.



3. (4 points) In one experiment in the video, room temperature water was mixed with water at about 38 degrees. To what temperature (about) did the mixture of the two water samples come to after setting for a few minutes?

1. The heat depends on the amount of substance. If the amount of substance is doubled, then the heat doubles. Other properties, such as density, are intensive, which means the amount of substance does not matter.

2. The (+) value indicates this reaction absorbs heat.

3. The mixture reached 30°C, but settled to 29.8°C.

Question 2

3 / 10 pts

[Scientific Calculator](#)

Answer the following three questions:

1. (3 points) A student conducted an experiment where she mixed 75 g of tap water (25.0°C) with 75g of warm water(35.0°C). The final temperature of the mixture was 28.0°

How much heat was gained by the tap water if the specific heat of water is 4.18 J/K-g?

Chem Fax Lab Answers

Zhe Xu



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Chambers's Encyclopædia: Goo.-Lab ,1880 American Laboratory ,2006 Chemistry and Industry ,1997

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