

CHEMCOMM
Lab, Molar Heat of Combustion of a Candle

NAME: _____
PERIOD: _____

Purpose: To experimentally determine the heat of combustion of a candle

Introduction: During chemical reactions, both matter and energy are conserved. In other words, even though they are rearranged during the course of the reaction, both are constant in the universe. The combustion of wax is the reaction of the *hydrocarbons* ($\sim C_{25}H_{52}$) *with oxygen in the atmosphere to produce carbon dioxide and water vapor*. This reaction is exothermic, i.e. releases heat to the surroundings. The amount of energy released can be measured through by using the calorimetry procedure.

Materials: Candle in holder
Ring stand with ring
Stirring rod
50-ml graduated cylinder
Thermometer
Empty soda can with tab top

Safety:

- Tie back hair, loose clothing and jewelry
- Handle lighted candle with care; wax will be hot after burning
- Dispose of matches in according to teacher instructions

Procedure:

1. Use the following table to collect the data taken throughout the procedure:

Initial mass of candle	
Final mass of candle	
Volume of water in can	
Room temperature	
Initial temperature of water in can	
Final temperature of water in can	

2. Take the mass of the candle in its holder and record in the data table.
3. Exactly measure 100ml of chilled water supplied by your teacher. The volume doesn't really matter, but knowing the exact amount you have does. Pour the water into your empty soda can.
4. Set-up calorimetry apparatus as shown by your teacher.
5. Measure and record the room temperature (i.e. just read the temperature on your thermometer)
6. Measure and record the temperature of the water in the soda can.
7. Light the candle and place it under your soda can so that the flame is just below the bottom of the can. Gently stir the water with your other stirring rod as it heats. Take care not to break the stirring rod.
8. Continue heating the water until the temperature rises as far above room temperature as it was below room temperature to start.

Heat Combustion Candle Lab Answers

Julie R. Peller



Heat Combustion Candle Lab Answers:

Chemistry in the Community American Chemical Society, 2006-01-31 This laboratory based text centres itself around decision making activities where students apply their chemistry knowledge to realistic situations This fifth edition includes more photographs new drawings and new design PE Lab Exp(Noncons)Mod Chem 90 Tzimopoulo, 1990 **Focus on Physical Science**, 2001 **Chemistry** McGraw-Hill Staff, 2001-07 Chemistry, an Experimental Science Chemical Education Material Study, 1963 **Energy Research Abstracts**, 1994 **Applied Mechanics Reviews**, 2000 *Research Paper ... of the Division of Building Research*, 1974 **Heating, Ventilating and Sanitary Plumbing**, 1911 **Journal of Gas Lighting**, 1917 The Sunnyside, 1927 Chemical Abstracts, 1915 **The Gas Record**, 1917 The Breeder's Gazette, 1905 *Electrical World*, 1906 **Exploring Chemistry Laboratory Experiments in General, Organic and Biological Chemistry** Julie R. Peller, 2003-04 This lab manual is organized and written to ensure that non science majors are comfortable with chemistry labs by making the experiments more applicable to students daily lives This approach also serves to make the experiments more understandable Many labs relate specifically to allied health fields **The Engineer**, 1906 *Government Reports Announcements & Index*, 1996 **Gas Age**, 1911 Includes summaries of proceedings and addresses of annual meetings of various gas associations L C set includes an index to these proceedings 1884 1902 issued as a supplement to Progressive age Feb 15 1910 **International Aerospace Abstracts**, 1996

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