

+ WS 7.1 Specific Heat & Calorimetry

Show all work neatly.....

$$q = m c \Delta T$$

Specific Heats	
substance	c (J/g°C)
water	4.184
ethanol	2.452
graphite	0.720
diamond	0.502
iron	0.444
copper	0.385
silver	0.237
gold	0.129
ice	2.092

1. How much heat is required to raise the temp of 654 g of water from 34.5°C to 89.7°C?

Ans _____

2. How much heat is required to raise the temp of 654 g of silver from 34.5°C to 89.7°C?

Ans _____

3. If 7350 J were added to 152 g of ethanol, its temp would go up by how much?

Ans _____

4. 16.25 g of water at 54.0°C releases 402.7 J. What will be its final temp?

hint: it's cooling down, so the final temperature will be less than 54.0°C

Ans _____

5. 697 J are added to a 36.8 g of kerosene and the temp increases from 22.5°C to 34.7°C. Determine kerosene's specific heat.

Ans _____

6. 25 copper pennies (each weighing 3.12 g) are placed in 36.0 g of ethanol at room temp (22.1°C). How much heat will it take to raise the temperature up to 65.8°C?

hint: Calculate q for the copper & q for the ethanol separately. Then add your 2 answers together

Ans _____

7. What mass of 54.0°C water must be added to 468 g of 21.0°C water to make the final temp of both come out to be 29.0°C?

Ans _____

8. What mass of 54.0°C gold must be added to 468 g of 21.0°C water to make the final temp of both come out to be 29.0°C?

Ans _____

9. A 325 g brass rod at 100.0°C is placed in a cup containing 162 g of 24.3°C water. The final temp comes out to be 37.4°C. Determine brass's specific heat.

Ans _____

10. 100.0 g of water at 20.0°C are mixed with 200.0 g of copper at 40.0°C. What will the final temp come out to be?

Ans _____

Calculations Involving Specific Heat Answer Key

RS Peters



Calculations Involving Specific Heat Answer Key:

Essentials of Chemistry Ralph A. Burns, John William Hill, 1995 The second edition of this chemistry textbook that uses practice examples and applications relating chemistry to our lives and the environment

Fundamentals of Chemistry Ralph A. Burns, 1995

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Science Spectrum Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03

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The Glass Industry, 1922 *Chemistry* William R. Robinson, Jerome D. Odom, Henry Fuller Holtzclaw, 1992

College Chemistry Companion James Kendall, 1925 Holt

Science & Technology Calculator-Based Labs Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Scientific American** ,1879 **Transactions of the Ninth International Otolological Congress (Boston, August 12-17, 1912)** ,1912 **Papers to be presented before the ninth International Otolological Congress, Boston, August 12-17, 1912** ,1912 **Educamus** ,1980 *The Gas Record* ,1915 Handbook of Environmental Engineering Calculations, Third Edition C. C. Lee, Shun Dar Lin, 2025-12-26 The only hands on reference of its kind delivers step by step calculation procedures covering virtually every aspect of environmental engineering fully updated Providing quick and easy access to the information you need most Handbook of Environmental Engineering Calculations Third Edition examines the latest issues you are likely to face today Covering everything from solid waste disposal and wastewater treatment to air pollution control it provides practical calculational procedures and integrates the regulatory requirements into engineering designs so the resulting designs fit the current legal framework Fully updated the Handbook of Environmental Engineering Calculations Third Edition features The latest methods for solving specific problems with worked out examples that include numerical results for calculations All new content bridging the information gap between environmental regulatory requirements and waste treatment compliance Detailed methods for creation of engineering designs for wastewater treatment solid waste treatment and air pollution **Heating, Ventilating, and Air Conditioning** Faye C. McQuiston, Jerald D. Parker, 1988-04-05 A new edition of the popular HVAC text reflecting the latest changes in the ASHRAE literature Includes expanded coverage of automatic control moist air properties and contains new data for floor slabs and underground walls and floors Increased emphasis has been placed on the effects of barometric pressure Now covers energy calculation by the bin method design of large hydronic systems with variable flow the energy grade line concept and includes new data for duct fittings and compressor performance Uses a dual system of units **Motion Picture Herald** ,1925 Chemistry James C. Hill, 2000 This text defines the concepts needed to learn or review cardiac auscultation The combination of audio and text explains how to identify and interpret normal and common abnormal heart sounds Some heart sounds are reproduced on a heart sound simulator allowing for a clear crisp grasp of specific individual sounds Others are recorded from real patients to distinguish between similar heart and lung sounds and to help the listener select the heart sounds from the auditory milieu
The Post Magazine and Insurance Monitor ,1919

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