

Thermochemistry Worksheet Answers

Useful Values:

Heat of Fusion for Water: $\Delta H_{\text{fus}} = 6 \text{ kJ/mol}$

Common error: not converting to moles

Heat of Vaporization for Water: $\Delta H_{\text{vap}} = 45 \text{ kJ/mol}$

Common error: same

1 calorie = 4.18 Joules

Material	Specific Heat in Joules/g/K	in Cal/g/K
Water (ice)	2.05	0.490
Water (liquid)	4.18	1.00
Water (gas)	2.08	0.498

**Common error here:
using moles instead of grams.**

1. How much energy does it take to warm the following substances the listed amount?

- | | |
|---|-----------------------------------|
| a. 20g of ice from -45°C to -15°C ? | 294 calories / 1230 Joules |
| b. 20g of water from 25°C to 55°C ? | 600 calories / 2508 Joules |
| c. 20g of water vapor from 130°C to 160°C ? | 299 calories / 1249 Joules |

2. To melt ice, one must bring ice to the freezing point (0°C), and then thaw it into water. How much heat would it take to melt...

- | | | |
|--|-----------------|-------------------|
| a. 30g of ice at 0°C ? | 10 kJ | (10,000 J) |
| b. 30g of ice at -40°C ? | 12.46 kJ | (12,460 J) |

3. To boil water, one must raise it to the boiling point (100°C), and then boil it into steam. How much heat would it take to boil...

- | | | |
|--|-----------------|-------------------------|
| a. 40g of water at 100°C ? | 100 kJ | (100,000 Joules) |
| b. 40g of water at 90°C ? | 101.7 kJ | (101,672 Joules) |
| c. 40g of water at 0°C ? | 116.7 kJ | (116,720 Joules) |
| d. 40g of ice at 0°C ? | 130.1 kJ | (130,053 Joules) |
| e. 40g of ice at -80°C ? | 136.6 kJ | (136,613 Joules) |

4. If 700 calories of heat raise 400g of Phonium by 20°C , what is the specific heat of Phonium? **0.0875 cal/g/K**

5. How much heat energy is stored in 2g of ice at -30°C ? (remember: use Kelvin) **238 cal / 996 J**

6. How much heat energy is stored in 2g of Phonium at 70°C ? (Assume Phonium is a solid at 70°C) **1672 cal**

7. If 100g of water at 10°C comes in contact with _____, what will the final temperature be?

(Remember, you have the specific heat of Phonium from question 4.)

- | | |
|--|---|
| a. 100g of water at 90°C | 50°C |
| b. 100g of Phonium at 90°C (Hint: the water and Phonium end at the same temperature) | 16.44°C |
| Common error: 6.44 degrees is the temperature change, and the water gets warmer. | |
| c. 20g of Phonium at 90°C | 11.38°C |
| d. 1g of Phonium at 90°C | 10.07°C |

8. If 450g of Phakelite at 100°C is added to 1000g of water at 20°C , the temperature of the water increases by 5° . What is the specific heat of Phakelite? **0.148 cal/g/K**

8. If 450g of Nonsensium at 500°C is added to 1000g of water at 20°C , the temperature of the water increases by 25° . What is the specific heat of Nonsensium? **0.122 cal/g/K**

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web when designing or installing electrical power supplies for fire pumps and their accessories you must apply special rules as listed in nfpa 70 the national electrical code nec and the standard for centrifugal fire pumps cfp nfpa 20

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web 1 system consists of pump skid and control box control box on deluxe systems only 2 check that the motor is securely fastened to the skid 3 connect sprinkler piping to customer connection on pump skid 4 connect pump suction connection to water source 5 wire control power to pump skid 6 ensure correct voltage is applied

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web oct 10 2018 the feeder conductors to the fire pump and associated equipment are required to have an ampacity not less than 125 percent of the full load current flc rating of the fire pump motor s and pressure maintenance pump motor s plus 100 percent of associated accessory equipment

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web above in all three auto positions the pumps shall be stopped by hand only as it will be common practice to run the diesel and electrical fire pump at least once a week for a couple of minutes and to prevent any damage to the pumps a return pipe to the reservoir sized for approximately 35 of the pump s duty point flow is to be

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web nov 21 2022 figure 1 design process for configuring electrical service to a fire pump courtesy affiliated engineers inc determine fire pump power source coordinate with the fire protection engineer to determine pump requirements the normal source must be in accordance with one of the following nec article 695 3 determine reliability alternate

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web the electrical wiring between the fire pump controller and the pump motor shall be in rigid intermediate or liquid tight flexible metal conduit or type mi cable and meet the requirements of local codes

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