|  |  |  |
| --- | --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Thermochemistry Crossword Puzzle

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1  C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2  H | E | A | T | O | F | R | E | A | C | T | I | O | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 3  C | H | E | M | I | C | A | L | P | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | R |  |  |  |  |  |  |  |  |  |  |  |  |  | 4  S |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | V |  |  |  |  |  |  |  |  |  | 5  F | U | S | I | O | N |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | A |  | 6  E |  |  |  | 7  C |  |  |  |  |  |  |  | L |  |  |  | 8  T |  |  |  |  |  |
|  |  |  |  |  |  | T |  | N |  |  |  | A |  |  |  |  |  |  |  | I |  |  |  | H |  |  |  |  |  |
|  |  |  |  |  |  | I |  | D |  |  |  | L |  |  |  | 9  V |  | 10  M |  | D |  | 11  H |  | E |  |  | 12  C |  |  |
|  |  |  |  |  |  | O |  | O |  |  |  | O |  |  | 13  C | A | L | O | R | I | M | E | T | R | Y |  | O |  |  |
|  |  |  |  |  |  | N |  | T |  |  |  | R |  |  |  | P |  | L |  | F |  | A |  | M |  |  | N |  |  |
|  |  |  |  | 14  E | X | O | T | H | E | R | M | I | C |  |  | O |  | A |  | I |  | T |  | O |  |  | D |  |  |
|  |  |  |  |  |  | F |  | E |  |  |  | M |  |  |  | R |  | R |  | C |  |  |  | C |  |  | E |  |  |
|  |  |  |  |  |  | E |  | R |  | 15  S | P | E | C | I | F | I | C | H | E | A | T |  |  | H |  |  | N |  |  |
|  |  |  |  |  |  | N |  | M |  |  |  | T |  |  |  | Z |  | E |  | T |  | 16  S |  | E |  |  | S |  |  |
|  |  |  |  |  |  | E |  | I |  |  | 17  H | E | A | T | C | A | P | A | C | I | T | Y |  | M |  |  | A |  |  |
|  |  |  |  |  |  | R |  | C |  |  |  | R |  |  |  | T |  | T |  | O |  | S |  | I |  |  | T |  |  |
|  |  |  |  |  |  | G |  |  |  |  |  |  |  |  |  | I |  | O |  | N |  | T |  | C |  |  | I |  |  |
|  |  |  |  |  |  | Y |  |  |  |  |  |  |  |  |  | O |  | F |  |  |  | E |  | A |  |  | O |  |  |
|  |  |  |  |  |  |  | 18  S | U | R | R | O | U | N | D | I | N | G | S |  |  |  | M |  | L |  |  | N |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 19  E | N | T | H | A | L | P | Y |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | U |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | T |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 20  T | H | E | R | M | O | C | H | E | M | I | S | T | R | Y |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 21  H | E | A | T | O | F | C | O | M | B | U | S | T | I | O | N |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across**  **2.** Known as ΔH (3 words)  **3.** Energy in chemical bonds (3 words)  **5.** The molar heat of \_\_\_ is theheat absorbed by a solid object as it melts  **13.** Measurement of the heat flow into or out of the system  **14.** When the system loses heat the reaction is...  **15.** Known as "c" in equations (2 words)  **17.** Amount of heat needed to increase the temperature of an object by 1 degree Celsius (2 words)  **18.** Everything in the universe  **19.** (H) ΔH measures the change in this  **20.** The study of heat transfer during chemical reactions and changes in state  **21.** Heat of reaction for burning one mole of a substance (3 words) | **Down**  **1.** The law of \_\_\_ states energy cannot be created or destroyed (3 words)  **4.** The molar heat of \_\_\_ is the heat lost by one mole when a liquid solidifies  **6.** When the system gains heat the reaction is...  **7.** Insulated object used in calorimetry experiments  **8.** A chemical equation that includes the enthalpy change as either a reactant or product  **9.** The molar heat of \_\_\_ is the amount of heat needed to vaporize a liquid  **10.** The change in H caused by dissolution (4 words)  **11.** (q) Always flows from warm to cold  **12.** The molar heat of \_\_\_ is the amount of heat released when vapor condenses  **16.** The reaction or substance changing |