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953 f

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what specific heat of water is how it is calculated and why it is high
compared to other substances find out the difference between heat
capacity and specific heat and the si unit of specific heat

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diagram showing heat required to heat water from solid ice to liquid
water and to vapor steam it take both specific heat and latent heat
released in stages to convert ice to steam specific heat and latent
heat capacity of ice water and steam illustrated using charts listed
above

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specific heat of approximately 4 18 j g c a pot of 10 kg of water will
require $10 \times 4.184 \times 10 = 418.4$ j of heat to increase its temperature by one

degree celsius

what is the specific heat of water how is it special Dec 13 2023 water has a specific heat capacity of 4182 j kg c because water is such an important and common substance we even have a special way to identify the amount of energy it takes to raise one gram of water by one degree celsius a calorie

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17 11 heats of vaporization and condensation chemistry Sep 10 2023 the molar heat of condensation left Δh text cond right is the heat released by one mole of a substance as it is converted from a gas to a liquid examples of calculations involving the molar heat of vaporization and condensation are illustrated

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heat capacity is the amount of heat required to raise the temperature

of an object by 1 text o text c the specific heat of a substance is the amount of energy required to raise the temperature of 1 gram of the substance by 1 text o text c

table of specific heat capacities wikipedia Jul 08 2023 the table of specific heat capacities gives the volumetric heat capacity as well as the specific heat capacity of some substances and engineering materials and when applicable the molar heat capacity

water heating calculator Jun 07 2023 our water heating calculator can help you determine both the amount of heat required to raise the temperature of some h₂o and the time it will take it considers the heat capacities of all three states of matter so it also works if you want to melt the ice or boil water

2 13 water heat of vaporization biology libretxts May 06 2023 as a result of the network of hydrogen bonding present between water molecules a high input of energy is required to transform one gram of liquid water into water vapor an energy requirement called the heat of vaporization water has a heat of vaporization value of 40 65 kj mol

2 14 water high heat capacity biology libretxts Apr 05 2023 water has the highest specific heat capacity of any liquid specific heat is defined as the amount of heat one gram of a substance must absorb or

lose to change its temperature by one degree celsius for water this amount is one calorie or 4 184 joules

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