

## Answer on question #41752, Chemistry, Other

### Question.

Which statement defines specific heat capacity for a given sample?

### Answer.

Heat capacity, or thermal capacity, is the measurable physical quantity of heat energy required to change the temperature of an object by a given amount.

$$c = \frac{dQ}{dT}$$

Specific heat capacity, often simply called specific heat, is the heat capacity per unit mass of a material:

$$[c] = \frac{dQ}{dT} * \frac{1}{m} = \frac{c}{m}$$