Question #85133, Chemistry / General Chemistry | for completion

if 25 J are required to change the temperature of 5.0 g of a substanceA by 2.0 degrees celsius, what is the specific heat of a substance A

Solution:

$$m = 5 g = 0.005 kg$$

$$c = \frac{Q}{m \cdot \Delta T} = \frac{25 J}{0.005 kg \cdot 2K} = 250 \frac{J}{kg \cdot K}$$

Answer: 250 $\frac{J}{kg \cdot K}$

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