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$$m = 450 \text{ g}$$

$$V_e = 1,50 \text{ L}$$

$$t_b = 50^\circ\text{C}$$

$$t_{i_e} = 18^\circ\text{C}$$

$$\textcircled{Q} = m \cdot c \cdot \textcircled{\Delta T} \quad \Delta E = 0$$

$$T_g = 19^\circ\text{C}$$

$$d_e = \frac{m}{V} \rightarrow m = d_e \cdot V_e$$
$$= 1 \frac{\text{kg}}{\text{dm}^3} \cdot 1,50 \cdot 10^{-3} \text{ m}^3 = 1,5 \text{ kg} \Rightarrow 1500 \text{ g}$$

$$\textcircled{Q}_b = m \cdot c \cdot \textcircled{\Delta T} \rightarrow 19^\circ\text{C} - 50^\circ\text{C} = -31^\circ\text{C}$$

$$450 \text{ g} \cdot c \cdot (-31^\circ\text{C}) = -13950 \text{ c}$$

$$\textcircled{Q}_R = m \cdot c \cdot \textcircled{\Delta T} \rightarrow 19^\circ\text{C} - 18^\circ\text{C} = 1^\circ\text{C}$$

$$1500 \text{ g} \cdot 4186 \cdot 1^\circ\text{C} = 6279000$$

$$\Delta E = 0 \rightarrow 6279000 = 13950 \text{ c}$$

$$c = 450 \frac{\text{J}}{\text{kg}^\circ\text{C}} \rightarrow 0,5 \frac{\text{kg}}{\text{kg}^\circ\text{C}}$$

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Dati:

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$$V_a = 4,5 \text{ L} \quad c_c = ?$$

$$T_a = 10^\circ \text{C} \rightarrow 283 \text{ K} \quad m_a = \rho_a \cdot V_a \rightarrow$$

$$m_c = 3,4 \cdot 10^2 \text{ g}$$

$$m_a = 1,00 \cdot 10^3 \frac{\text{kg}}{\text{m}^3} \cdot 4,5 \cdot 10^{-3} \text{ m}^3 =$$

$$T_c = 200^\circ \text{C} \rightarrow 473 \text{ K}$$

$$m_a = 4,5 \text{ Kg} \rightarrow 4500 \text{ g}$$

$$T_e = 13^\circ \text{C} \rightarrow 286 \text{ K}$$

$$Q_a = c_a \cdot m_a \cdot (T_e - T_a)$$

$$Q_c = c_c \cdot m_c \cdot (T_c - T_e)$$

$$Q_a = Q_c$$

$$c_c = \frac{c_a \cdot m_a \cdot (T_e - T_a)}{m_c \cdot (T_c - T_e)}$$

$$c_c = \dots$$