

$$3.6 \quad \beta := 1.2 \cdot 10^{-3} \cdot \text{degC}^{-1} \quad C_p := 0.84 \cdot \frac{\text{kJ}}{\text{kg} \cdot \text{degC}} \quad M := 5 \cdot \text{kg}$$

$$V_1 := \frac{1}{1590} \cdot \frac{\text{m}^3}{\text{kg}} \quad P := 1 \cdot \text{bar} \quad t_1 := 0 \cdot \text{degC} \quad t_2 := 20 \cdot \text{degC}$$

With beta independent of T and with P=constant,

$$\frac{dV}{V} = \beta \cdot dT \quad V_2 := V_1 \cdot \exp[\beta \cdot (t_2 - t_1)] \quad \Delta V := V_2 - V_1$$

$$\Delta V_{\text{total}} := M \cdot \Delta V \quad \Delta V_{\text{total}} = 7.638 \times 10^{-5} \text{ m}^3 \quad \text{Ans.}$$

$$\text{Work} := -P \cdot V_{\text{total}} \quad (\text{Const. P}) \quad \text{Work} = -7.638 \text{ joule} \quad \text{Ans.}$$

$$Q := M \cdot C_p \cdot (t_2 - t_1) \quad Q = 84 \text{ kJ} \quad \text{Ans.}$$

$$\Delta H_{\text{total}} := Q \quad \Delta H_{\text{total}} = 84 \text{ kJ} \quad \text{Ans.}$$

$$\Delta U_{\text{total}} := Q + \text{Work} \quad \Delta U_{\text{total}} = 83.99 \text{ kJ} \quad \text{Ans.}$$

$$3.8 \quad P_1 := 8 \cdot \text{bar} \quad P_2 := 1 \cdot \text{bar} \quad T_1 := 600 \cdot \text{K} \quad C_p := \frac{7}{2} \cdot R \quad C_v := \frac{5}{2} \cdot R$$

$$(a) \text{ Constant V:} \quad W = 0 \quad \text{and} \quad \Delta U = Q = C_v \cdot \Delta T$$

$$T_2 := T_1 \cdot \frac{P_2}{P_1} \quad \Delta T := T_2 - T_1 \quad \Delta T = -525 \text{ K}$$

$$\Delta U := C_v \cdot \Delta T \quad Q \text{ and} \quad \Delta U = -10.91 \frac{\text{kJ}}{\text{mol}} \quad \text{Ans.}$$

$$\Delta H := C_p \cdot \Delta T \quad \Delta H = -15.28 \frac{\text{kJ}}{\text{mol}} \quad \text{Ans.}$$

$$(b) \text{ Constant T:} \quad \Delta U = \Delta H = 0 \quad \text{and} \quad Q = W$$

$$\text{Work} := R \cdot T_1 \cdot \ln\left(\frac{P_2}{P_1}\right) \quad Q \text{ and} \quad \text{Work} = -10.37 \frac{\text{kJ}}{\text{mol}} \quad \text{Ans.}$$

$$(c) \text{ Adiabatic:} \quad Q = 0 \quad \text{and} \quad \Delta U = W = C_v \cdot \Delta T$$

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