PHYS1013 Energy and Matter

$$W = -nRT \int_{V_{c}}^{dV} \frac{dV}{V} = -nRT \ln\left(\frac{V_{c}}{V_{c}}\right) H = U + PV \quad T(K) = T(K) + 273.15$$

$$dH = dU + dCPV \quad dH = dU + pdV + VdP$$

$$U_{p}(n_{f}, P_{f}, V_{f}, ...) \quad C_{p} = (\Delta H/\Delta T)_{p} \quad \Delta U = Q - W_{f}(\frac{V_{c}}{V_{c}})$$

$$dH = dq + dW \quad C_{p} = (\frac{\Delta H}{\Delta T})_{p} \quad W = P\Delta U \quad W = \int_{V_{c}}^{P\Delta V} VdV$$

$$H = U + PV \quad \Delta U + CP dH \quad C_{p}dT \quad C_{p} = (\Delta U/\Delta T)_{p}$$

$$dW = -pdV \quad \Delta U = Q \quad \Delta U/\Delta T)_{p} \quad dU = Q \quad \Delta U/\Delta T$$

$$CV = (\frac{\Delta U}{\Delta T})_{p} \quad dU = Q \quad \Delta U/\Delta T$$

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$$dV = \frac{(\Delta U/\Delta T)_{p}}{(\Delta U/\Delta T)_{p}} \quad dU = Q \quad \Delta U/\Delta T$$

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MP Week 5 - average score 76.6%

Average time 52 min



