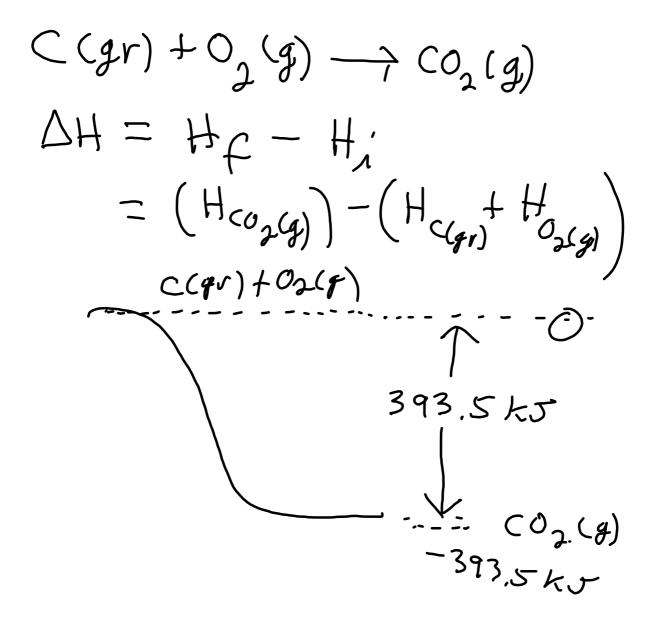


 $Mg(s) + 2HC(ap) \rightarrow Mg(l_2(ap) + H_2(q))$ Gran =? Is Thermineter Is Mg(5) 0.158g - LOOML HCI $M_{\mathcal{I}}(S) + 2 H((a_{\mathcal{I}}) \rightarrow M_{\mathcal{I}}(l_{2}(\mathcal{P}))$ 32.8 °C \uparrow +H_2(g) 25.6°C Grxn + Gcal frxn = - fral f cal = Cp M At Cal At Cal $= (4.18 \frac{J}{100})(7.2\%)$ = 3009.6 J frxn = -fraj = - 3009.6 J $160 \text{ mL}\left(1\frac{\text{F}}{\text{mL}}\right) = 100 \text{ g}$ At= tr-t: = 32.8°C-25.6°C = 7.2°C

$$\begin{split} & \int rx_{n} = \frac{-3009.65}{0.158 g Mg} \left(\frac{24.31g Mg}{1 \text{ mol } Mg} \right) \\ & = -463059 \frac{5}{Mol Mg} \\ & \sim -463 \frac{1}{Mol Mg} \\ & \sim -463 \frac{1}{Mol Mg} \\ & Mg(s) + 244cl(a_{1}) + Mgcl_{2}(q_{1}) + H_{2}(g) \quad \Delta H = -463165 \\ & \Delta H = H_{f} - H_{h} \\ & = \left(H_{mgcl_{2}(a_{1})} + H_{h} + H_{h} \right) - \left(H_{Mg(s)} + H_{h} + H_{h} \right) \\ \end{split}$$



 $2C(gr) + O_{2}(g) \rightarrow 2CO(g) \ \Delta H = ?$ $C(gr) + O_{2}(g) \rightarrow CO_{2}(g) \ \Delta H = -373.567$ $2CO(g) + O_{2}(g) \rightarrow 2CO_{2}(g) \ \Delta H = -556.067$ $2C(gr) + 2O_{2}(g) \rightarrow 2CO_{2}(g) \ \Delta H = -787.067$ $2C(gr) + 2O_{2}(g) \rightarrow 2CO(g) \ \Delta H = -787.067$ $2C(gr) + O_{2}(g) \rightarrow 2CO(g) \ \Delta H = +556.065$