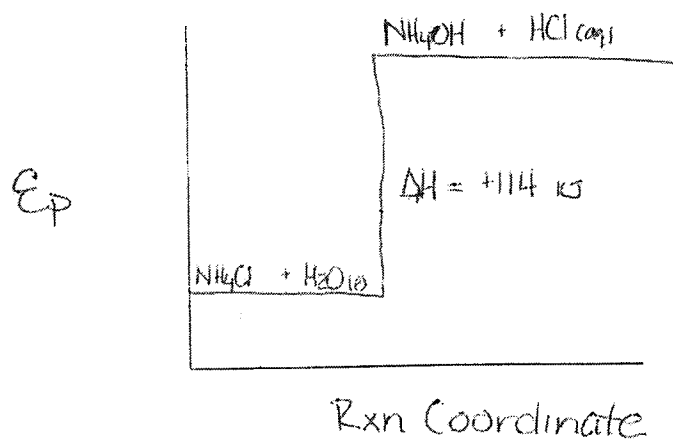
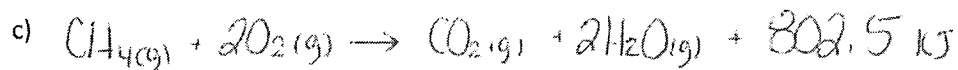
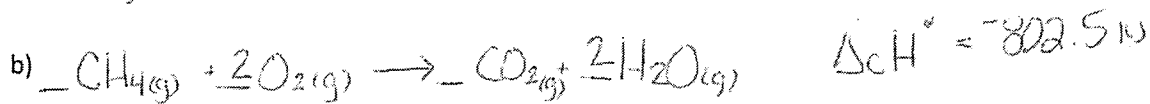


d)



3. The combustion of methane produces 802.5 kJ of energy per mole.

a)  $\Delta_c H_m^{\circ}(\text{CH}_4(\text{g})) = -802.5 \text{ kJ/mol}$



d)

