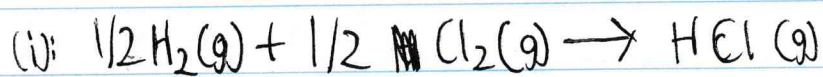


Lecture 16 Problems

Problem 1



(ii): $\Delta H_r^\circ = -92.31 \text{ kJ/mol}$

(iii): $\Delta S_r^\circ = \cancel{+10.03 \text{ kJ/mol}} \quad 10.03 \text{ J/(K mol)}$

(iii): $\Delta G_r^\circ = -95.3 \text{ kJ/mol}$

Problem 2

No, only above 252 K.

Problem 3

69.5 J/(K mol)

Problem 4

f