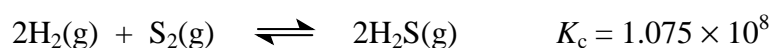


Marks
5

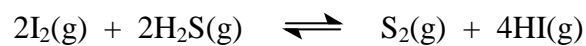
- At 700 °C, hydrogen and iodine react according to the following equation.



Hydrogen also reacts with sulfur at 700 °C:



Determine K_c for the following overall equilibrium reaction at 700 °C.



$K_c =$

What is the standard free energy change at 700 °C for this overall equilibrium reaction?

Answer: