

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

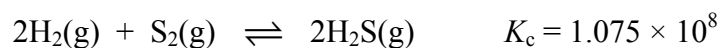


If 0.250 mol of HI(g) is introduced into a 2.00 L flask at 700 °C, what will be the concentration of I<sub>2</sub>(g) at equilibrium?

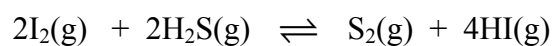
**Marks**  
**4**

Answer:

Hydrogen also reacts with sulfur at 700 °C:



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



Answer: