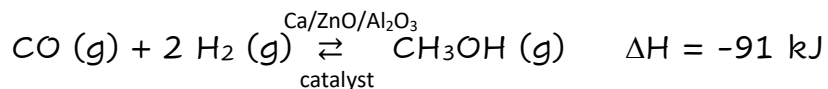


Le Chatelier's Principle

1. Consider the following equation to answer the questions below.



Indicate if the yield of CH₃OH will increase, decrease, or have no effect with the following changes:

- concentration of H₂ is increased
- concentration of CO is decreased
- the pressure is increased by decreasing the volume
- the temperature is increased
- remove the catalyst
- sulfuric acid is added and reacts with CO
- decrease the temperature
- add some argon gas
- remove some methanol
- continuously remove methanol as it is formed