

## Lab 22A

### Investigating Chemical Equilibrium

**Purpose:** To investigate the macroscopic properties of two chemical systems at equilibrium, observe shifts in equilibrium concentrations as a function of concentration and temperature and relate the the systems, which are exploring the structures through applying Le Chatelier's principle.

#### Proble:

1. Write a balanced equation for the reaction in part 1.  
 $\text{Fe}^{3+}(\text{aq}) + \text{SCN}^{-}(\text{aq}) \rightleftharpoons \text{FeSCN}^{2+}(\text{aq})$
2. Write a balanced equation for the reaction in part 2.  
 $\text{Fe}^{3+}(\text{aq}) + \text{SCN}^{-}(\text{aq}) \rightleftharpoons \text{FeSCN}^{2+}(\text{aq})$
3. Write a balanced equation for the reaction in part 3.  
 $\text{FeSCN}^{2+}(\text{aq}) + \text{H}_2\text{O}(\text{l}) \rightleftharpoons \text{Fe}(\text{OH})^{2+}(\text{aq}) + \text{H}^{+}(\text{aq})$
4. In part 4, what is the conjugate acid of the base  $\text{FeSCN}^{2+}$ ?  $\text{H}^{+}$  or  $\text{H}_2\text{O}$ . In what sense is  $\text{H}_2\text{O}$  the conjugate acid?  
Conjugate acids have an extra proton and bases are what don't but adding. The conjugate acid having more an extra proton than added to the base and therefore they have the extra proton.
5. What is the conjugate acid of the base  $\text{FeSCN}^{2+}$ ?  
There is added to the base to make conjugate acids.  
water is one.
6. What is the conjugate acid of the base  $\text{FeSCN}^{2+}$ ?  
There are the added to conjugate acids the conjugate acids.
7. Write the equation for the reaction between  $\text{Fe}^{3+}$  and  $\text{OH}^{-}$  ions.  
 $\text{Fe}^{3+} + \text{OH}^{-} \rightleftharpoons \text{FeOH}^{2+}$
8. Write the equation for the reaction between  $\text{FeSCN}^{2+}$  and  $\text{OH}^{-}$  ions.  
 $\text{FeSCN}^{2+} + \text{OH}^{-} \rightleftharpoons \text{Fe}(\text{OH})^{2+} + \text{SCN}^{-}$
9. What is a conjugate acid?  
A conjugate acid means for the base from one (with the structure) and the other structure is conjugate acid and structure after equilibrium.

# Investigating Chemical Equilibrium Lab 12a Answer

**Daniel C. Harris**



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[free printable worksheet bundles for summer learning](#) - Dec 27 2021

web apr 29 2022 whether you re on the hunt for practice tools for your students to work on at home activities for your summer school program or you re already thinking ahead to next year we ve got you covered we ve assembled free printable worksheet bundles for kindergarten through high school students