



CHEMISTRY

BOOKS - BETTER CHOICE PUBLICATION

ELECTROCHEMISTRY

Electrochemical Cells

1. What are electrochemical cells? Name the two types of electrochemical cells.

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2. Write four differences between galvanic (or electrochemical) cell and electrolytic cell.

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Galvanic Cells

1. What do you understand by standard reduction potential of electrode?

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2. Give the construction and working of $Zn/CuSO_4$ or Daniel cell.

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3. In a galvanic cell,

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4. What do you understand by normal hydrogen electrode ? Give its structure and working.



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5. What is salt bridge? give its functions.

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6.

Which type of reaction occurs at cathode in a galvanic cell ?

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7.

Why electrochemical cell stops working after sometimes ?

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8. Distinguish between emf and potential difference.

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9. Name the factors on which electrode potential depends?

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10. Why is it not possible to measure the single electrode potential?

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11. What flows in the internal circuit of a galvanic cell ?

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12. What is e.m.f. of the cell, when the cell reaction attains equilibrium ?

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13. Can a Galvanic cell work without a salt bridge?

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14. Can you store copper sulphate solutions in a zinc pot?

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15. An aqueous solution containing 1 M each of Au^{3+} , Cu^{2+} , Ag^+ , Li^+ is being electrolysed by using inert electrodes. The value of standard reduction potentials are:

$$E_{Ag^+ / Ag}^\circ = 0.8V, E_{Cu^{2+} / Cu}^\circ = 0.34V \text{ and } E_{Au^{3+} / Au}^\circ = 1.50V, E_{Li^+ / Li}^\circ =$$

with increase voltage, the sequence of deposition of metals on the cathode will be:

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16. Can we store copper sulphate solution in iron vessel? Give suitable explanation in support of your answer

$$[E^\circ (Cu^{2+} / Cu) = + 0.34V, E^\circ (Fe^{2+} / Fe) = - 0.44V]$$

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17. Can a nickel spoon be used to stir a solution of copper sulphate ? Support your answer with reason.

$$[E^\circ (Ni^{2+} / Ni) = - 0.25V, E^\circ (Cu^{2+} / Cu) = + 0.34V]$$

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18. What is electrochemical series? How it used to determine the e.m.f. of the cell?

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1. State and explain Nernst equation.

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2. Derive equilibrium constant from Nernst equation.

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3. How is standard Gibbs energy of a reaction related to its equilibrium constant?

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4. How is standard Gibbs energy of a reaction related to its equilibrium constant?

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Conductance Of Electrolytic Solutions

1. Define Specific conductance.

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2. Define conductance and conductivity?

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3. Define Specific conductance.

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4. Define conductivity and molar conductivity for the solution of an electrolyte. Discuss their variation with concentration.

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5. What is electrical conductivity? Name the metals which have the highest conductivity and the lowest conductivity.

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6. What is electrical conductivity? Name the metals which have the highest conductivity and the lowest conductivity.

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7. What is electrical conductivity in ionic solids due to ?

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8. What are metallic conductors ?

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9. What are electrolyte conductors ?

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10. What is weak electrolyte?

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11. What are metallic conductors ?

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12. How does electrolytic conductance vary with concentration of weak electrolytes ? Explain.

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13. Write two difference between strong and weak electrolytes.

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14. How does electrolytic conductance vary with concentration of weak electrolytes ? Explain.

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15. How does the electrolytic conductance vary with temperature ?

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16. Kohlrausch law can be used to find the molar conductivity of a weak electrolyte at infinite dilution.

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17. State and explain Kohlrausch's law. How would you determine the molar conductance of a weak electrolyte at infinite dilution?

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18. Assume that you know the molar conductances of NH_4Cl , NaOH and NaCl at infinite dilution. How will you find the molar conductance of NH_4OH from them ?

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19. Assume that you know the molar conductances of HCl, NaCl and $CH_3COO Na$ at infinite dilution. How will you find the molar conductance of CH_3COOH from them.

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20. Assume that you know the molar conductances of $AgNO_3$, KCl and KNO_3 at infinite dilution. How will you find the molar conductance of $AgCl$ from them.

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21. Suggest a way to determine the $\Lambda^\circ m$ value of water.

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Electrolytic Cells And Electrolysis

1. Which allotrope of carbon is used in making electrodes ?

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2. What are inert electrodes ? Give two examples.

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3. Define electrochemical equivalent of substance.

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4. How much amount of substance is deposited by passing one Faraday of electricity.

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5. what is electrolysis?

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6. Predict the products of electrolysis in each of the following: An aqueous solution of $AgNO_3$ with silver electrodes.

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7. Write short note on dry cell.

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8. Write short note on lead storage battery.

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9. Write two difference between primary cells and secondary cells.

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10. Describe $Ni - Cd$ storage cell.

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1. What are fuel cells ? Discuss $H_2 - O_2$ fuel cell. List some advantages of fuel cells over other cells.

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2. Which cell was used in Apollo space programme ? What was the product used for ?

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3. What is corrosion?

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4. Discuss the electrochemical theory of corrosion.

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5. CO_2 is always present in natural water. Explain its effect as rusting of iron.

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6. Rusting of iron quicker in saline water than in ordinary water. Explain.

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7. How can iron be protected from rusting by sacrificial protection ?

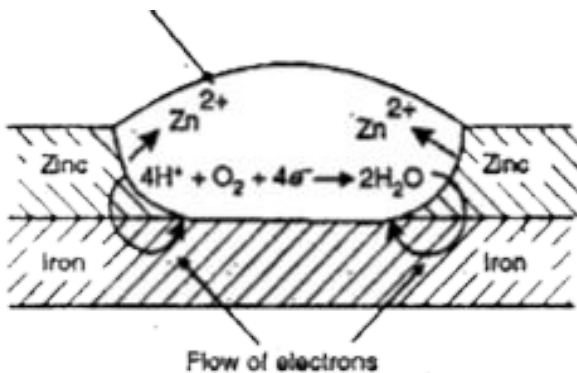


Fig. Sacrificial protection of iron by coating it with zinc



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8. (a) What is galvanisation ?
- (b) Give three methods to protect iron from rusting.
- (c) Discuss the factors responsible for rusting of iron or corrosion.
- (d) Name a chemical which is used for preventing rusting of iron.



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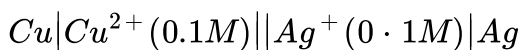
Numerical Problems

1. Derive Nernst equation for the following cell:



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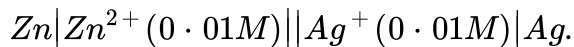
2. Derive Nernst equation for the following cell:





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3. Write Nernst equation and calculate emf for the following cell:



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4. Calculate ΔG° and equilibrium constant for the cell reaction,



Given that: $E^\circ (\text{Cl}_2, \text{Cl}^-) = 1.36\text{V}$, $E^\circ (\text{I}_2, \text{I}^-) = 0.536\text{V}$



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5. A potential difference of 20 V applied to the ends of a column of 0.1 M AgNO_3 solution, 4 cm in diameter and 12 cm in length have a current of 20 A. calculate the molar conductance of the solution.



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6. For the cell $Mg|Mg^{2+}||Ag^+|Ag$ calculate equilibrium constant at $25^\circ C$ and also the maximum work that can be obtained from it.

$$E^\circ (Mg^{2+}, Mg) = -2 \cdot 37V \text{ and } E^\circ (Ag^+, Ag) = +0 \cdot 80V.$$

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7. The electrical resistance of a column of 0.05 mol L^{-1} NaOH solution of diameter 1 cm and length 50 cm is 5.55×10^3 ohm. Calculate its resistivity, conductivity and molar conductivity.

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8. A conductivity cell has its electrodes 1 cm apart and each electrode has area of cross-section 2 cm^2 , when filled with M/50 solution of sodium acetate, the cell shows a resistance of 166.5 ohms. Calculate the molar conductance of sodium acetate solution at the given concentration.

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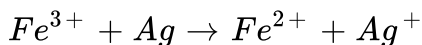
9. Calculate ΔG° for the following cell:



Given that: $E^\circ(Cu^{2+}/Cu)=+0.34V, E^\circ(Fe^{2+}/Fe)=-0.44V.$

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10. E° values for Fe^{3+}/Fe^{2+} and Ag^+/Ag are 0.771 V and 0.8 respectively. Is the reaction,



Spontaneous or not? Give reason also.

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11. The resistance of a 0.5 M solution of an electrolyte enclosed between two platinum electrodes 1.5 cm apart and having an area of $2 \cdot 0cm^3$ was found to be 30 ohm. Calculate the molar conductivity of the electrolyte.

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12. E° value for Cu^{2+} / Cu and Fe^{2+} / Fe are +0.34 V and -0.44 V respectively. Is the reaction $Cu^{2+} + Fe \rightarrow Cu + Fe^{3+}$ spontaneous or not ? Give reason also.

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13. A 0.05 M NaOH solution offered a resistance of 31.6 ohm in a conductivity cell at 298 K. if the area of the plates of the conductivity cell is 3.8 cm^2 and distance between them 1.4 cm. calculate the molar conductivity of the NaOH solution.

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14. E° values of Ni^{2+} / Ni and Cu^{2+} / Cu are -0.25 V and +0.34 V respectively. Is the reaction:

$Ni + Cu^{2+} \rightarrow Ni^{2+} + Cu$ spontaneous or not ? Give reason also.





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15. The resistance of a 0.5 M solution of an electrolyte in a conductivity cell was found to be 25 ohm. Calculate the molar conductivity of the solution, if the electrodes in the cell are 1.6 cm apart and have an area of $3 \cdot 2\text{cm}^2$.



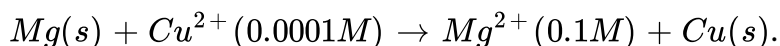
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16. Represent the cell in which the following reaction takes place
 $\text{Mg}(s) + 2\text{Ag}^+(0.0001M) \rightarrow \text{Mg}^{2+}(0.130M) + 2\text{Ag}(s)$ Calculate its E_{cell} if $E_{\text{cell}} = 3.17\text{ V}$.



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17. Represent the cell in which the following reaction takes place:

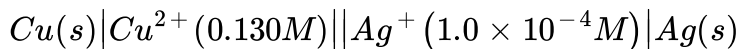


Calculate its E, if E° is 2.71V.



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18. Write Nernst equation and calculate the e.m.f. of the following cell at 298 K:



Given that: $E_{Cu^{2+}/Cu}^{\circ} = +0.34V$ and $E_{Ag^+/Ag}^{\circ} = +0.80V$

($\log 0.130 = -1.1139$).



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19. The molar conductance of NaCl solution at different concentrations at 298 K are given below:

$C(\text{mol L}^{-1})$	$\Lambda^{\circ}m(\text{S cm}^2 \text{ mol}^{-1})$
0.001	123.7
0.010	118.5
0.020	115.75
0.050	111.06

Plot a graph between Δ_m and $c^{1/2}$ and determine the value of Δ_{0m} from it.

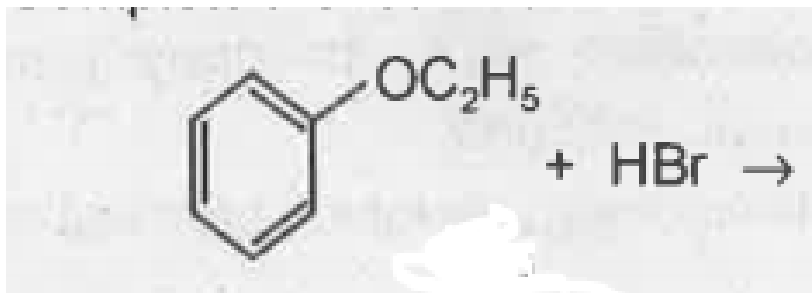
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20. Write Nernst equation and calculate e.m.f. of the cell at 298 k.



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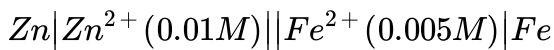
21. Complete the reaction :



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22. Write Nernst equation and calculate the e.m.f of the following cell at

298 K:

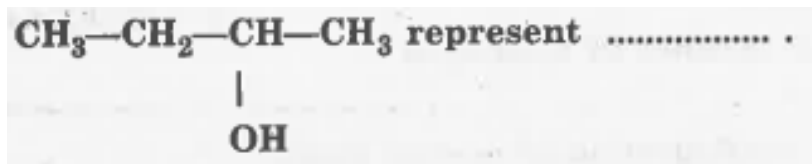


Given that:

$$(E_{\text{Zn}^{2+}/\text{Zn}}) = -0.763\text{V} \text{ and } E_{\text{Fe}^{2+}/\text{Fe}}^{\circ} = -0.44\text{V} \quad \log 2 = 0.3010$$

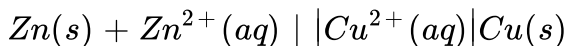
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23. Fill in the blanks:



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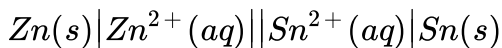
24. Calculate the standard Gibbs energy for the cell :



$$E_{(\text{Zn}^{2+}/\text{Zn})}^{\circ} = -0.76\text{V}, E_{(\text{Cu}^{2+}/\text{Cu})}^{\circ} = 0.34\text{V}, F = 96500\text{C}.$$

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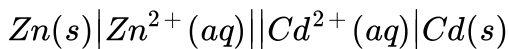
25. Calculate the standard Gibbs energy for the cell :



$$E^\circ_{(\text{Zn}^{2+} / \text{Zn})} = -0.76\text{V}, E^\circ_{(\text{Sn}^{2+} / \text{Sn})} = -0.16\text{V}, F = 96500\text{C}.$$

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26. Calculate the standard Gibbs energy for the cell :



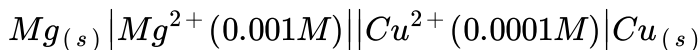
$$E^\circ_{(\text{Zn}^{2+} / \text{Zn})} = -0.76\text{V}, E^\circ_{(\text{Cd}^{2+} / \text{Cd})} = -0.403\text{V}, F = 96500\text{C}.$$

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27. The λ° values of KNO_3 and LiNO_3 are 145.0 and 110.1 $\text{S cm}^2\text{mol}^{-1}$ respectively. The λ° value of K^+ ion is 73.5 $\text{S cm}^2\text{mol}^{-1}$. Calculate $\lambda^\circ(\text{Li}^+)$.

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28. Calculate the e.m.f. of the following cell at 298 K.



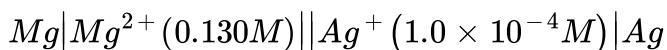
Given $E^\circ (Cu^{2+} | Cu) = 0.34V$ and $E^\circ (Mg^+ | Mg) = -2.37V$.

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29. The λ° values of KCl and KNO_3 are 149.9 and 144.9 $S\ cm^2\ mol^{-1}$ respectively. Also λ° for Cl^- is 71.44 $S\ cm^2\ mol^{-1}$. The λ° value of NO_3^- ion.

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30. Calculate the e.m.f. of the following cell at 298 K,

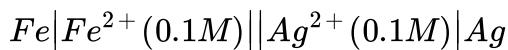


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31. The λ° values of NaCl and NaN_3 are 126.5 and $121.6 \text{ S cm}^2 \text{ mol}^{-1}$ respectively. The λ° value of NO_3^- ion is $76.3 \text{ S cm}^2 \text{ mol}^{-1}$ calculate $\lambda^\circ(\text{Cl}^-)$.

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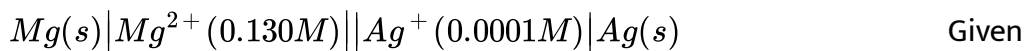
32. Calculate the e.m.f. Of the following cell at 298:



$$E^\circ_{(\text{Fe}^{2+} / \text{Fe})} = -0.44\text{V}, E^\circ_{(\text{Ag}^+ / \text{Ag})} = 0.80\text{V}.$$

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33. Write the Nernst equation and calculate e.m.f of following cell at 298K.

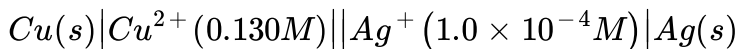


$$E^\circ_{\text{Mg}^{2+} / \text{Mg}} = -2.37\text{V}, E^\circ_{\text{Ag}^+ / \text{Ag}} = 0.80\text{V}. (\log 1.3 = 0.1130)$$

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34. Write Nernst equation and calculate the e.m.f. of the following cell at

298 K:



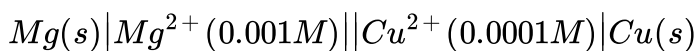
Given that: $E_{Cu^{2+}/Cu}^{\circ} = +0.34V$ and $E_{Ag^+/Ag}^{\circ} = +0.80V$

($\log 0.130 = -1.1139$).



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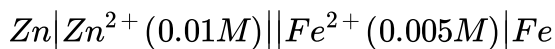
35. Write Nernst equation and calculate e.m.f. of the cell at 298 k.



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36. Write Nernst equation and calculate the e.m.f of the following cell at

298 K:

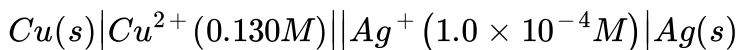


Given that:

$$(Zn^{2+} / Zn) = -0.763V \text{ and } E_{Fe^{2+} / Fe}^{\circ} = -0.44V \quad \log 2 = 0.3010$$

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37. Write Nernst equation and calculate the e.m.f. of the following cell at 298 K:

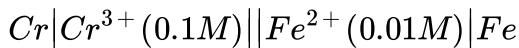


Given that: $E_{Cu^{2+} / Cu}^{\circ} = +0.34V$ and $E_{Ag^{+} / Ag}^{\circ} = +0.80V$

($\log 0.130 = -1.1139$).

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38. Calculate the e.m.f. of the cell at $25^{\circ}C$



Given $E_{(Cr^{3+} / Cr)}^{\circ} = -0.75V$, $E_{(Fe^{2+} / Fe)}^{\circ} = -0.44$

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39. What is the amount of electricity required to deposit one mole of aluminium from a solution of $AlCl_3$?

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40. A solution of $Ni(NO_3)_2$ is electrolysed between platinum electrodes using a current of 5 amperes for 20 minutes. What mass of Ni is deposited at the cathode?

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41. What is the amount of electricity required to deposit one mole of aluminium from a solution of $AlCl_3$?

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42. What mass of zinc can be produced by the electrolysis of zinc sulphate solution when a current of 1.5 amperes is passed for 15 minutes

? The atomic mass of zinc=65.4 amu.

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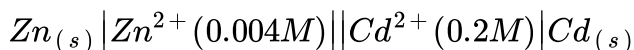
43. What is the amount of electricity required to deposit one mole of Zinc from the solution of $ZnSO_4$?

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44. A solution of $CuSO_4$ is electrolysed for 10 minutes with a current of 1.5 amperes. What is the mass of copper deposited at the cathode?

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45. Calculate the cell e.m.f. and ΔG for the cell reaction at $25^\circ C$ for the cell:



E° values at $25^\circ C$, $Zn^{2+} / Zn = - 0.763V$

$$Cd^{+2} / Cd = -0.403V$$

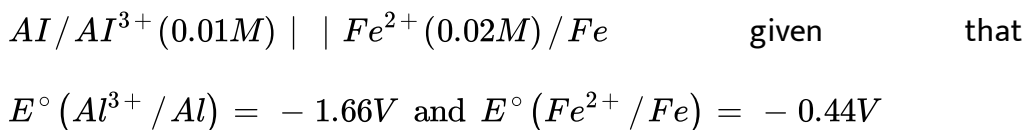
$$F = 96,500, R = 8.314JK^{-1}mole^{-1}.$$

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46. The resistance of a 0.5 M solution of an electrolyte in a conductivity cell was found to be 25 ohm. Calculate the molar conductivity of the solution, if the electrodes in the cell are 1.6 cm apart and have an area of $3 \cdot 2cm^2$.

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47. Calculate ΔG and E_{cell} for the cell:

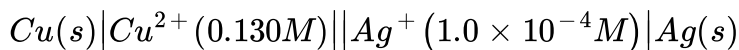


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48. The resistance of a 0.5 M solution of an electrolyte enclosed between two platinum electrodes 1.5 cm apart and having an area of $2 \cdot 0\text{cm}^3$ was found to be 30 ohm. Calculate the molar conductivity of the electrolyte.

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49. Write Nernst equation and calculate the e.m.f. of the following cell at 298 K:



Given that: $E_{\text{Cu}^{2+}/\text{Cu}}^{\circ} = +0.34V$ and $E_{\text{Ag}^+/\text{Ag}}^{\circ} = +0.80V$

($\log 0.130 = -1.1139$).

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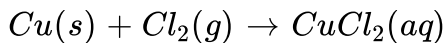
50. The electrical resistance of a column of 0.05 mol L^{-1} NaOH solution of diameter 1 cm and length 50 cm is 5.55×10^3 ohm. Calculate its resistivity, conductivity and molar conductivity.

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51. Calculate the equilibrium constant for the reaction at 298K $4 \text{ Br} + \text{O}_2 + 4\text{H}^+ \rightarrow 2 \text{ Br}_2 + 2\text{H}_2\text{O}$ Given that $E_{\text{cell}} = 0.16\text{V}$

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52. Calculate the equilibrium constant for the reaction at 298K



Given that

$$R = 8.314 \text{ J K}^{-1} \text{ mol}^{-1},$$

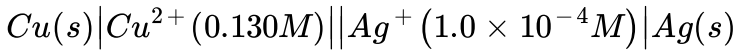
$$E^\circ \text{ Cu}^{2+} / \text{Cu} = 0.34\text{V},$$

$$E^\circ \frac{1}{2} \text{ Cl}_2 / \text{Cl}^- = 1.36\text{V}$$

$$F = 96500 \text{ C mol}^{-1}$$

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53. Write Nernst equation and calculate the e.m.f. of the following cell at 298 K:



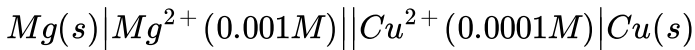
Given that: $E_{Cu^{2+}/Cu}^{\circ} = +0.34V$ and $E_{Ag^+/Ag}^{\circ} = +0.80V$

($\log 0.130 = -1.1139$).



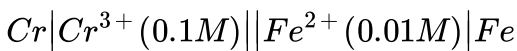
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54. Write the Nernst equation and emf of the following cells at 298 K:



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55. Calculate the e.m.f. of the cell at $25^{\circ}C$

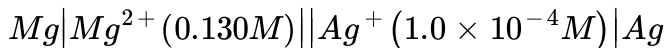


Given $E_{(Cr^{2+}/Cr)}^{\circ} = -0.75V$, $E_{(Fe^{2+}/Fe)}^{\circ} = -0.44$



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56. Calculate the e.m.f. of the following cell at 298 K,



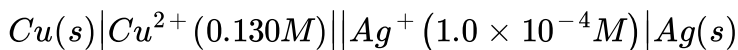
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57. Write Nernst equation and calculate e.m.f. of the cell at 298 k.



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58. Write Nernst equation and calculate the e.m.f. of the following cell at 298 K:



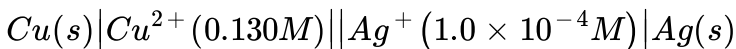
Given that: $E_{Cu^{2+}/Cu}^{\circ} = +0.34V$ and $E_{Ag^+/Ag}^{\circ} = +0.80V$

($\log 0.130 = -1.1139$).

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59. Write Nernst equation and calculate the e.m.f. of the following cell at

298 K:



Given that: $E_{Cu^{2+}/Cu}^{\circ} = +0.34V$ and $E_{Ag^+/Ag}^{\circ} = +0.80V$

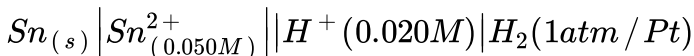
($\log 0.130 = -1.1139$).



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60. Write the Nernst equation and calculate the e.m.f. of the following cell

at 298K.



Given $E_{Sn/Sn^{2+}}^{\circ} = -0.14V$

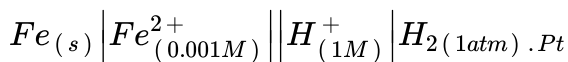
$$EMF = \left(E_{H^+/1/2H_2}^{\circ} - E_{Sn^{2+}/Sn}^{\circ} \right) - \frac{0.0591V}{2} \log \frac{[Sn^{2+}]}{[H^+]^2}$$



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61. Write The Nernst equation and calculate the e.m.f. of the following cell

at 298K.



$$\text{Given } E_{Fe^{2+}/Fe}^{\circ} = -0.44V$$

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62. Calculate the equilibrium constant for the reaction $2Fe^{3+}(aq) + 2I^{-}(aq) \rightarrow 2Fe^{2+}(aq) + I_2(s)$ $E_{cell} = 0.236V$

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63. Calculate the equilibrium constant for the reaction $2Fe^{3+}(aq) + 2I^{-}(aq) \rightarrow 2Fe^{2+}(aq) + I_2(s)$ $E_{cell} = 0.236V$

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64. The resistance of a 0.5M solution of an electrolyte was found to be 30Ω . Calculate the molar conductivity of the solution if the electrodes in the cell are 1.5 cm apart and having an area of cross section is 2.0 cm^2 .

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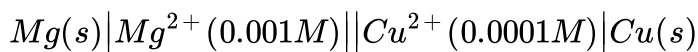
65. The resistance of a 0.5 M solution of an electrolyte in a conductivity cell was found to be 25 ohm. Calculate the molar conductivity of the solution, if the electrodes in the cell are 1.6 cm apart and have an area of $3 \cdot 2\text{cm}^2$.

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66. The resistance of a 0.25 mol or solution of an molar solution of an electrolyte was found to be 75Ω . Calculate the molar conductivity of the solution if the electrodes in the cell are 1.8 cm apart and having an area of cross section 3.6cm^2 .

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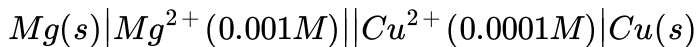
67. Write Nernst equation and calculate e.m.f. of the cell at 298 k.





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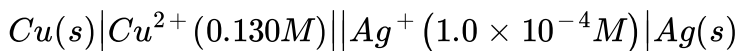
68. Write Nernst equation and calculate e.m.f. of the cell at 298 k.



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69. Write Nernst equation and calculate the e.m.f. of the following cell at

298 K:



Given that: $E_{Cu^{2+}/Cu}^{\circ} = +0.34V$ and $E_{Ag^+/Ag}^{\circ} = +0.80V$

($\log 0.130 = -1.1139$).



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