

Use the table of standard reduction potentials from your textbook to complete the following table. The zinc-copper Daniell cell is given as an example.

Electrodes	Conc. of Each Cation	Half-Reactions	Cathode or Anode?	$E^\circ$ (table)	$E^\circ_{\text{cell}}$ (calc'd)	$E^\circ_{\text{cell}}$ (measured)
A. Determine the $E^\circ$ for the Standard Zn-Cu Galvanic Cell						
Zn	1.0 M $\text{Zn}^{2+}$	$\text{Zn}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Zn}_{\text{s}}$	Anode	-0.76 V	+1.10 V	0.93 V
Cu	1.0 M $\text{Cu}^{2+}$	$\text{Cu}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Cu}_{\text{s}}$	Cathode	+0.34 V		
B. Determine the $E^\circ$ for the Cu-Zn Cell at Non-standard Concentrations						
Zn	1.0 M $\text{Zn}^{2+}$	$\text{Zn}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Zn}_{\text{s}}$	Anode	-0.76 V	_____ V	0.95 V
Cu	0.5 M $\text{Cu}^{2+}$	$\text{Cu}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Cu}_{\text{s}}$	Cathode	+0.34 V		
Zn	1.0 M $\text{Zn}^{2+}$	$\text{Zn}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Zn}_{\text{s}}$	Anode	-0.76 V	_____ V	0.96 V
Cu	0.1 M $\text{Cu}^{2+}$	$\text{Cu}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Cu}_{\text{s}}$	Cathode	+0.34 V		
C. Determine the $E^\circ$ for Zn-Mg and Cu-Mg Galvanic Cells						
Zn	1.0 M $\text{Zn}^{2+}$	$\text{Zn}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Zn}_{\text{s}}$	Anode	-0.76 V	_____ V	0.82 V
Mg	1.0 M $\text{Mg}^{2+}$	$\text{Mg}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Mg}_{\text{s}}$	Cathode	-2.38 V		
Cu	1.0 M $\text{Cu}^{2+}$	$\text{Cu}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Cu}_{\text{s}}$	Anode	+0.34 V	_____ V	1.10 V
Mg	1.0 M $\text{Mg}^{2+}$	$\text{Mg}^{2+}_{\text{aq}} + 2e^- \rightarrow \text{Mg}_{\text{s}}$	Cathode	-2.38 V		

\*You must use the Nernst equation to calculate this  $E_{\text{cell}}$  voltage. (See Equation 8.)

# Galvanic Cell Experiment Report

**JS Bruner**



## Galvanic Cell Experiment Report:

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Computational, Education, and Materials Science Aspects Ponnadurai Ramasami,2022-10-03 Chapters collected from The Virtual Conference on Chemistry and its Applications VCCA 2021 Research and Innovations in Chemical Sciences Paving the Way Forward This conference was held in August 2021 and organized by the Computational Chemistry Group of the University of Mauritius These peer reviewed chapters offer insights into research on fundamental and applied chemistry with interdisciplinary subject matter      Report ,1964      Proceedings, Abstracts of Lectures and a Brief Report of the Discussions of the National Teachers' Association, the National Association of School Superintendents and the American Normal School Association National Education Association of the United States,1912      *Solar Energy Update* ,1982

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