

REPORT SHEET

Electrochemical Cells and Thermodynamics

EXPERIMENT

17

	Shorthand cell designation	Temperature (°C)	E cell (measured)	ΔG (calculated)	K_{eq} (calculated)
1.	Pb Pb Cu	20.2	.492 V	-94 kJ	1601.25
2.	Sn Cu	20.2 20.3	.249 V	-78 kJ	2,198
3.	Sn Pb	20.9	.125 V	-16 kJ	3.645

Show calculations for ΔG° and K_{eq} for an exemplary pair. For Pb | Pb²⁺ || Sn²⁺ | Sn:

Half-cell equation	E half-cell (calculated)
1. $(Pb(s) \rightarrow Pb^{2+} + 2e^-) (Cu^{2+} + 2e^- \rightarrow Cu)$	= .406 V
2. $(Sn \rightarrow Sn^{2+} + 2e^-) (Cu^{2+} + 2e^- \rightarrow Cu)$	= .425 V
3. $(Sn \rightarrow Sn^{2+} + 2e^-) (Pb^{2+} + 2e^- \rightarrow Pb)$	= .0196 V

Effect of Temperature on Cell Potential

Cell designation: E (measured)	Temperature (°C)	Temperature (K)	ΔG (calculated)
Pb Cu: .08 V	25	298	-16,598
Sn Cu: .085 V	35	308	-16,405
Su Pb: .086 V	50	323	-16,212
Pb Cu: .082 V	60	333	-18,120
Su Cu: .081 V	65	338	-18,653
Su Pb: .079 V	70	343	-18,297

ΔS determined from the slope of a plot of ΔG versus T 3.62

ΔF° calculated at 298 K -7.652 (show calculations)

Electrochemical Cells And Thermodynamics Lab Answers

David Kirk



Electrochemical Cells And Thermodynamics Lab Answers:

Electrochemical Cells And Thermodynamics Lab Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Electrochemical Cells And Thermodynamics Lab Answers**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

https://staging.conocer.cide.edu/results/scholarship/HomePages/Knopf_Guide_Ireland.pdf

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