

# REPORT SHEET

## Electrochemical Cells and Thermodynamics

EXPERIMENT

17

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

Show calculations for  $\Delta G^\circ$  and  $K_{eq}$  for an exemplary pair. For Pb | Pb<sup>2+</sup> || Sn<sup>2+</sup> | 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)	$\Delta G$ (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

$\Delta S$  determined from the slope of a plot of  $\Delta G$  versus T 3.62

$\Delta F^\circ$  calculated at 298 K -7.652 (show calculations)

# Electrochemical Cells And Thermodynamics Lab Answers

**Brendan G. Carr**



## **Electrochemical Cells And Thermodynamics Lab Answers:**

## Reviewing **Electrochemical Cells And Thermodynamics Lab Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Electrochemical Cells And Thermodynamics Lab Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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