

22.12 Relating G and Ecell (Video)

This project was preformed to supply **Libretext Authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

Video Topics

G and E_{cell} are related by the equation: $G^\circ = -nFE^\circ_{\text{cell}}$

G° = Gibbs free energy in J/mol

n = number of electrons transferred in the reaction

F = Faraday constant = 96,485 C/mol e^-

E°_{cell} = Volt

Remember (V)(C) = J

Positive E°_{cell} → Negative G° → Spontaneous

Negative E°_{cell} → Positive G° → Non-Spontaneous

The video contains an example problem where G° for a reaction is calculation from a given E°_{cell} .

Link to Video

Relating G and Ecell: <https://youtu.be/49KhN73HVM8>



Attribution

- Prof. Steven Farmer (Sonoma State University)

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