

## 22.8 Calculating the Temperature at Which a Reaction Becomes Spontaneous (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

For processes, which are spontaneous at high temperature or spontaneous at low temperatures, there is a specific temperature where the transition to spontaneous is made.

The reaction starts to become spontaneous when  $G = 0$

So using the equation:  $G = H - TS$  and setting  $G = 0$

$$0 = H - TS$$

Or

$$TS = H$$

$$T = H/S$$

This video contains an example problem, which calculates the temperature at which a reaction becomes spontaneous.

### Link to Video

Calculating the Temperature at Which a Reaction Becomes Spontaneous: [https://youtu.be/bdu9EApkg\\_s](https://youtu.be/bdu9EApkg_s)



### Attribution

- Prof. Steven Farmer (Sonoma State University)

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