

22.11 The Van't Hoff Equation (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

The equation $G^{\circ}_{\text{rxn}} = -RT \ln K_p$ shows that there is a relationship between K_p and T .

This is expressed by the van't Hoff equation: $\ln(K_2/K_1) = (H^{\circ}/R)(1/T_1 - 1/T_2)$

T is in Kelvin

H° is the enthalpy of the reaction and need to have the units J/mol due to the presence of the constant R .

$R = 8.314 \text{ J/mol K}$

This video contains an example problem which uses this equation.

Link to Video

The Van't Hoff Equation: https://www.youtube.com/watch?v=4vk6idAXp_A



Attribution

- Prof. Steven Farmer ([Sonoma State University](#))

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