**Spontaneity – Formula Sheet:**

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| **2nd Law of Thermodynamics:** | **Entropy Change:** |
| **Entropy:** | **Enthalpy Change:** |
| **Gibbs Free Energy Change:** | **Standard Free Energy Change:** |
| **The Reaction Quotient:** | **The Equilibrium Constant:** |
| **ln (K) vs (1/T) linear Plot:****Slope:**  | **ln (K) vs (1/T) linear Plot:****Y-Intercept:** |
| **Spontaneity:** | **The Equilibrium Constant:** |

**Spontaneity Table:**

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| **Gibbs Free Energy Change:****Note:** Convert  | **Boiling Point Temperature:** |