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| Spontaneous Process | First Law of Thermodynamics |
| Entropy | Standard Free Energy Change |
| Positional Probability | Standard Free Energy Change of Formation |
| Second Law of thermodynamics | Equilibrium Point |
| Free Energy | Reversible Process |
| Third Law of Thermodynamics | Irreversible Process |
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|  |  |
| endothermic | exothermic |
| Thermodynamically favorable | Thermodynamically unfavorable |