

## Thermodynamics Review

1. What is a spontaneous change or reaction?

Spontaneous changes or reactions occur in a forward direction without any outside intervention.

2. Will a spontaneous reaction *always* proceed at a rapid rate towards equilibrium?

No, it will if given enough time, but thermodynamics cannot predict how fast the reaction will proceed. Kinetics is the study of reaction rates.

3. Because a reaction is spontaneous, does it mean that a lot of product will be produced when the system reaches equilibrium?

The spontaneity of a reaction does not tell you whether a lot of product will be produced or not. (A reaction that has a large negative value of  $\Delta G$ , however will usually be product favored.)

We will talk more about equilibrium in Chapter 15.

4. A chemical reaction in which most of the reactants can eventually be converted to products, *if given sufficient time*, is said to be product favored.

5. If a reaction is reactant favored, does it mean that it will not occur at all?

No, it just means that not a lot of product is formed.

Chemists spend a lot of time and money varying reaction conditions to maximize the amount of product formed.

We will talk about this more next unit.

6. The thermodynamic function called entropy is a measure of the matter dispersal or disorder of the system.

7. All spontaneous processes increase the total entropy of the universe (2<sup>nd</sup> Law)

8. If the entropy of each element is taken as zero at 0 K, every substance has a finite entropy. This statement is called the 3<sup>rd</sup> Law of Thermodynamics.

### PREDICT S

9. By inspection, predict whether the entropy value will increase or decrease during the following processes and give the sign of the entropy change:



### CALCULATE S

# Modeling Chemistry Unit 6 Review Answers

**Scott C. Dulebohn**



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*Biorefinery of Alternative Resources: Targeting Green Fuels and Platform Chemicals* Sonil Nanda, Dai-Viet N. Vo, Prakash Kumar Sarangi, 2020-03-31 This book summarizes recent advances in the processing of waste biomass resources to produce biofuels and biochemicals Worldwide interest in clean energy sources environmental protection and mitigating global warming is rapidly gaining momentum and spurring on the search for alternative energy sources especially for the transportation and industrial sectors This book reviews the opportunities presented by low cost organic waste materials discussing their suitability for alternative fuel and fine chemical production physicochemical characterization conversion technologies feedstock and fuel chemistry refining technologies fuel upgrading residue management and the circular economy In addition it explores applied aspects of biomass conversion by highlighting several significant thermochemical hydrothermal and biological technologies In summary the book offers comprehensive and representative descriptions of key fuel processing technologies energy conversion and management waste valorization eco friendly waste remediation biomass supply chain lifecycle assessment techno economic analysis and the circular bioeconomy **Federal Register** ,1996-07-24

Ultrasound Technologies for Food and Bioprocessing Hao Feng, Gustavo Barbosa-Canovas, Jochen Weiss, 2010-11-17 Traditional food and bioprocessing technologies are facing challenges due to high expectation from the consumers and producers for better quality and safety higher process efficiency and products with novel properties or functionalities For this reason in the last few years new forms of physical energies have been explored to propose alternatives to traditional processing technologies Acoustic energy has the potential to replace or partially substitute conventional processes and at the same time offer unique opportunities in the characterization of foods and biomaterials This book is a resource for experts and newcomers in the field of power ultrasound gives insights into the physical principles of this technology details the latest advancements and links them to current and potential applications in the food and bioprocessing related industries

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