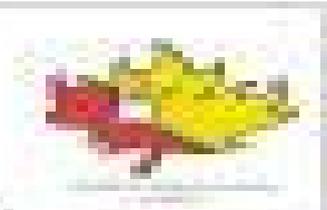


Thermochemistry REVIEW

TEST 1

Gurvir Singh

Chemistry 30 A



- 01.1 Predicting the spontaneity of a reaction from the entropy and enthalpy changes
- 01.2 Calculating the equilibrium constant, the concentration, or the standard enthalpy of reaction from the K_c
- 01.3 Calculating enthalpy and mass changes for chemical reactions

1. Which of the following represents a spontaneous process? **1 mark**
- A. $\text{C}_2\text{H}_5\text{OH}(l) \rightarrow \text{C}_2\text{H}_5\text{H}_2\text{O}(g) + \text{H}_2\text{O}(g) + \text{H}_2\text{O}(g)$
- B. $\text{C}_2\text{H}_5\text{OH}(l) + \text{H}_2\text{O}(g) + \text{H}_2\text{O}(g) \rightarrow \text{C}_2\text{H}_5\text{H}_2\text{O}(g)$
- C. $\text{H}_2\text{O}(g) + \text{H}_2\text{O}(g) \rightarrow \text{C}_2\text{H}_5\text{OH}(l) + \text{H}_2\text{O}(g)$
- D. $\text{H}_2\text{O}(g) + \text{H}_2\text{O}(g) \rightarrow \text{C}_2\text{H}_5\text{OH}(l) + \text{H}_2\text{O}(g)$
2. The heat capacity of a substance is $24 \text{ J K}^{-1}\text{ mol}^{-1}$. The temperature will be increased and reduced if it gains 100 J of heat. **1 mark**
- A. 4.2 K^{-1}
- B. 4.2 K
- C. 4.2 K^{-1}
- D. 4.2 K
3. Which of the following reactions corresponds to the standard enthalpy of formation of NaClO_2 ? **1 mark**
- A. $\text{NaClO}_2 \rightarrow \text{Na} + \text{Cl}_2 + \text{O}_2$
- B. $\text{NaClO}_2 \rightarrow \text{Na} + \text{Cl}_2 + \text{O}_2$
- C. $\text{NaClO}_2 \rightarrow \text{Na} + \text{Cl}_2 + \text{O}_2$
- D. $2 \text{NaClO}_2 \rightarrow 2 \text{Na} + \text{Cl}_2 + \text{O}_2$
4. Which reaction is $\Delta H_{\text{f}}^\circ$ of CO_2 ? **1 mark**
- A. $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$
- B. $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$
- C. $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$
- D. $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$

Chemistry Thermochem Unit Test Review

Yan Bai



Chemistry Thermochem Unit Test Review:

Developments in Thermochemical Biomass Conversion A.V. Bridgwater, D.G.B. Boocock, 2013-11-21 There have been many developments in the science and technology of thermo chemical biomass conversion since the previous conference on Advances in Thermochemical Biomass Conversion in Interlaken Switzerland in 1992 This fourth conference again covers all aspects of thermal biomass conversion systems from fundamental research through applied research and development to demonstration and commercial applications to reflect the progress made in the last four years All aspects of bioenergy systems are covered from pretreatment through to end user applications with increased consideration paid to the environmental benefits and problems of implementing bio energy systems There was an excellent response with over 200 papers offered and over 180 delegates from 29 countries attending the conference The programme was divided into five main areas covering pyrolysis pretreatment gasification combustion and system studies and this division is reflected in the structure of these conference proceedings Each main section was preceded by a state of the art review to provide a focus for the ensuing presentations and an authoritative reference All the papers included have been subject to a full peer review process As with any international conference an important aim was to exchange ideas and discuss problems with fellow researchers as well as to hear about the latest research and development and applications A workshop programme was included to encourage this interaction in areas of interest selected by participants The resultant workshop reports provide a summary of topical problems and opportunities

Thermochemical Processing of Biomass Robert C. Brown, 2011-03-16 Thermochemical pathways for biomass conversion offer opportunities for rapid and efficient processing of diverse feedstocks into fuels chemicals and power Thermochemical processing has several advantages relative to biochemical processing including greater feedstock flexibility conversion of both carbohydrate and lignin into products faster reaction rates and the ability to produce a diverse selection of fuels Thermochemical Processing of Biomass examines the large number of possible pathways for converting biomass into fuels chemicals and power through the use of heat and catalysts The book presents a practical overview of the latest research in this rapidly developing field highlighting the fundamental chemistry technical applications and operating costs associated with thermochemical conversion strategies Bridging the gap between research and practical application this book is written for engineering professionals in the biofuels industry as well as academic researchers working in bioenergy bioprocessing technology and chemical engineering Topics covered include Combustion Gasification Fast Pyrolysis Hydrothermal Processing Upgrading Syngas and Bio oil Catalytic Conversion of Sugars to Fuels Hybrid Thermochemical Biochemical Processing Economics of Thermochemical Conversion For more information on the Wiley Series in Renewable Resources visit www.wiley.com/go/rrs

The Electrical Review, 1917 *Energy Research Abstracts*, 1981 **General Electric Review** General Electric Company, 1914 **Encyclopedia of chemical technology.** *Bulletin of Chemical Thermodynamics*

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,1979 *Solar Energy Update* ,1981-10 Chemical Engineering Catalog ,1922 **Russian Chemical Reviews** ,1996
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unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and
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