

Multiple Choices: Entropy

1. In which of the following does the entropy decrease?

- A) $\text{NaCl(s)} \rightarrow \text{Na}^+(\text{aq}) + \text{Cl}^-(\text{aq})$
 B) $4\text{NO(g)} + 6\text{H}_2\text{O(g)} \rightarrow 4\text{NH}_3(\text{g}) + 5\text{O}_2(\text{g})$
 C) $2\text{NaHCO}_3(\text{s}) \rightarrow \text{Na}_2\text{CO}_3(\text{s}) + \text{CO}_2(\text{g}) + \text{H}_2\text{O(g)}$
 D) $\text{CaCO}_3(\text{s}) + 2\text{HCl(aq)} \rightarrow \text{CaCl}_2(\text{aq}) + \text{CO}_2(\text{g}) + \text{H}_2\text{O(l)}$

ANS: B

1. The normal boiling point of methanol is 64.7°C and the molar enthalpy of vaporization is 71.6 kJ/mol . The value of ΔS when 2.15 mol of $\text{CH}_3\text{OH(l)}$ vaporizes at 64.7°C is _____ J/K .

- A) 0.457 B) 521×10^3
 C) 457 D) 2.39×10^3
 E) 2.39

ANS: C

1. Which one of the following reactions has a positive entropy change?

- A) $\text{H}_2\text{O(g)} \rightarrow \text{H}_2\text{O(l)}$
 B) $\text{BF}_3(\text{g}) + \text{NH}_3(\text{g}) \rightarrow \text{F}_3\text{BNH}_3(\text{s})$
 C) $2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2\text{SO}_3(\text{g})$
 D) $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightarrow 2\text{NH}_3(\text{g})$
 E) $2\text{NH}_4\text{NO}_3(\text{s}) \rightarrow 2\text{N}_2(\text{g}) + 4\text{H}_2\text{O(g)} + \text{O}_2(\text{g})$

ANS: E

1. For a certain process at 127°C , $\Delta G = -16.20\text{ kJ}$ and $\Delta H = -17.0\text{ kJ}$. What is the entropy change for this process at this temperature? Express your answer in the form, $\Delta S = \frac{\text{J/K}}$.

- A) -6.3 J/K B) $+6.3\text{ J/K}$ C) -2.0 J/K
 D) $+2.0\text{ J/K}$ E) -0.1 J/K

ANS: C

1. Evaluate ΔS° for the reaction below at 25°C .



	$\text{CH}_4(\text{g})$	$+ 2\text{Cl}_2(\text{g})$	\rightarrow	$\text{CCl}_4(\text{l})$	$+ 2\text{H}_2(\text{g})$
ΔG°_f (kJ/mol)	-50.8	0		-63.9	0
ΔG°_f (kJ/mol)	-16.7	0		-63.9	0

- A) -360 J/K B) -66.9 J/K C) -155 J/K
 D) -467 J/K E) -387 J/K

2012 Multiple Choice Ap Chemistry

Michael Hoelscher



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Rao, 2020-06-14 Quick Review Series for BDS 1st Year is an extremely exam oriented book The book contains a collection of the last 25 years' questions of General Anatomy including Embryology and Histology Physiology Biochemistry Oral Histology and Dental Anatomy in accordance with the BDS 1st year syllabus The book will serve the requirements of BDS 1st year students to prepare for their examinations and help PG aspirants in quick review of important topics Unique collection of last 25 years' solved questions asked in major university examinations across India Simple well illustrated lucid in content and style in two color format Book contains numerous flowcharts and tables for easier understanding Perfectly segregated into 6 sections General Anatomy including Embryology and Histology Physiology Biochemistry Oral Histology and Dental Anatomy

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Johnstone Triangle Norman Reid, 2021-01-18 Chemistry is often seen as a difficult subject to understand This book focusses on the triangle model that Alex H Johnstone developed in the early 1980s Originally conceived in the context of making chemistry more accessible to a wider range of learners the model has been applied in almost every area of education in chemistry at all stages of learning In looking at why chemistry is difficult there are two central questions Firstly does the problem relate to the nature of chemistry and secondly does it relate to the way humans gain understanding Both were found to be important and the answers to the two questions were found to be connected The

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Climate Change 2013 - The Physical Science Basis Intergovernmental Panel on Climate Change (IPCC), 2014-03-24 This Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard scientific reference for all those concerned with climate change and its consequences including students and researchers in environmental science meteorology climatology biology ecology and atmospheric chemistry It provides invaluable material for decision makers and stakeholders at international national and local level in government businesses and NGOs This volume provides An authoritative and unbiased overview of the physical science basis of climate change A more extensive assessment of changes observed throughout the climate system than ever before New dedicated chapters on sea level change biogeochemical cycles clouds and aerosols and regional climate phenomena Extensive coverage of model projections both near term and long term climate projections A detailed assessment of climate change observations modelling and attribution for every continent A new comprehensive atlas of global and regional climate projections for 35 regions of the world

Synthetics, Mineral Oils, and Bio-Based Lubricants Leslie R. Rudnick, 2020-01-29 Highlighting the major economic and industrial changes in the lubrication industry since the first edition *Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology* Third Edition highlights the major economic and industrial changes in the lubrication industry and outlines the state of the art in each major lubricant application area Chapters cover the use of lubricant fluids growth or decline of market areas and

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Structural Biology in Drug Discovery Jean-Paul Renaud, 2020-01-27 With the most comprehensive and up to date overview of structure based drug discovery covering both experimental and computational approaches Structural Biology in Drug Discovery Methods Techniques and Practices describes principles methods applications and emerging paradigms of structural biology as a tool for more efficient drug development Coverage includes successful examples academic and industry insights novel concepts and advances in a rapidly evolving field The combined chapters by authors writing from the frontlines of structural biology and drug discovery give readers a valuable reference and resource that Presents the benefits limitations and potentiality of major techniques in the field such as X ray crystallography NMR neutron crystallography cryo EM mass spectrometry and other biophysical techniques and computational structural biology Includes detailed chapters on druggability allostery complementary use of thermodynamic and kinetic information and powerful approaches such as structural chemogenomics and fragment based drug design Emphasizes the need for the in depth biophysical characterization of protein targets as well as of therapeutic proteins and for a thorough quality assessment of experimental structures Illustrates advances in the field of established therapeutic targets like kinases serine proteinases GPCRs and epigenetic proteins and of more challenging ones like protein protein interactions and intrinsically disordered proteins

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Table of Contents 2012 Multiple Choice Ap Chemistry

1. Understanding the eBook 2012 Multiple Choice Ap Chemistry
 - The Rise of Digital Reading 2012 Multiple Choice Ap Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying 2012 Multiple Choice Ap Chemistry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook 2012 Multiple Choice Ap Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2012 Multiple Choice Ap Chemistry
 - Personalized Recommendations
 - 2012 Multiple Choice Ap Chemistry User Reviews and Ratings
 - 2012 Multiple Choice Ap Chemistry and Bestseller Lists
5. Accessing 2012 Multiple Choice Ap Chemistry Free and Paid eBooks
 - 2012 Multiple Choice Ap Chemistry Public Domain eBooks
 - 2012 Multiple Choice Ap Chemistry eBook Subscription Services
 - 2012 Multiple Choice Ap Chemistry Budget-Friendly Options
6. Navigating 2012 Multiple Choice Ap Chemistry eBook Formats
 - ePub, PDF, MOBI, and More
 - 2012 Multiple Choice Ap Chemistry Compatibility with Devices
 - 2012 Multiple Choice Ap Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2012 Multiple Choice Ap Chemistry
 - Highlighting and Note-Taking 2012 Multiple Choice Ap Chemistry
 - Interactive Elements 2012 Multiple Choice Ap Chemistry
8. Staying Engaged with 2012 Multiple Choice Ap Chemistry

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 2012 Multiple Choice Ap Chemistry
- 9. Balancing eBooks and Physical Books 2012 Multiple Choice Ap Chemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2012 Multiple Choice Ap Chemistry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2012 Multiple Choice Ap Chemistry
 - Setting Reading Goals 2012 Multiple Choice Ap Chemistry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2012 Multiple Choice Ap Chemistry
 - Fact-Checking eBook Content of 2012 Multiple Choice Ap Chemistry
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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