

UNIT 4

INTRODUCTION TO PHYSICAL CHEMISTRY

Answers

Lesson 1 – What are the energy changes taking place during chemical reactions?



Thinkabout Activity 1.1: What is potential energy?

Note: students are likely to have very different and inaccurate understandings of what potential energy is at this stage; the purpose of this opening activity and discussion is to address some of the misconceptions about energy in general and potential energy in particular

- Energy associated with attraction or repulsion
- Gravitational, chemical, nuclear, spring
- Gravitational; you increase it by moving away from the earth and decrease it by moving towards the earth; if you have zero gravitational potential energy you are completely free of the earth's gravitational pull; otherwise you have negative gravitational potential energy
- chemical; you increase it by moving electron away from the nucleus and decrease it by moving it towards the nucleus; if the electron has zero chemical potential energy it is completely free of the nuclear pull (the atom has been ionised); otherwise it has negative chemical potential energy



Test your knowledge 1.2: Describing Exothermic and Endothermic Reactions

(a) Exothermic



(b) It is converted into kinetic (heat) energy; the particles get hotter /move faster

(a) Endothermic



(b) It comes from kinetic (heat) energy; the particles get colder /move more slowly

Lesson 2 – How do we calculate and record enthalpy changes?



Summary Activity 2.1: How can we calculate the number of moles?

- (a) $100/16 = 6.25$ moles; (b) $(300000 \times 0.0005)/(8.31 \times 298) = 0.0606$ moles
- $1000/180 = 5.56$ moles

Elements Of Physical Chemistry Answers

Huangqi Zhang



Elements Of Physical Chemistry Answers:

The book delves into Elements Of Physical Chemistry Answers. Elements Of Physical Chemistry Answers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Elements Of Physical Chemistry Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Elements Of Physical Chemistry Answers
- Chapter 2: Essential Elements of Elements Of Physical Chemistry Answers
- Chapter 3: Elements Of Physical Chemistry Answers in Everyday Life
- Chapter 4: Elements Of Physical Chemistry Answers in Specific Contexts
- Chapter 5: Conclusion

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