

CHAPTER 16 STUDY GUIDE

Reaction Rates

Section 16.1 A Model for Reaction Rates

In your textbook, read about expressing reaction rates and explaining reactions and their rates.

Use each of the terms below just once to complete the passage.

collision theory
activation energy

activated complex
reaction rate

$\text{mol}/(\text{L}\cdot\text{s})$

According to the (1) _____, atoms, ions, and molecules must collide in order to react. Once formed, the (2) _____ is a temporary, unstable arrangement of atoms that may then form products or may break apart to reform the reactants. Every chemical reaction requires energy, and the minimum amount of energy that reacting particles must have to form the activated complex is the (3) _____. In a chemical reaction, the (4) _____ is the change in concentration of a reactant or product per unit time. It may be expressed using the units of (5) _____.

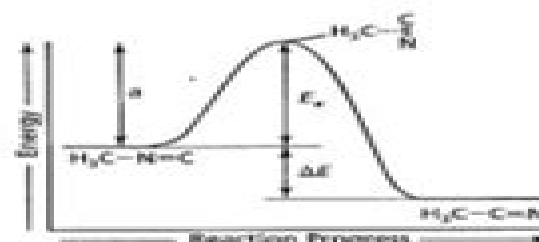
Use the energy diagram for the rearrangement reaction of methyl isonitrile to acetonitrile to answer the following questions.

- What kind of reaction is represented by this diagram, endothermic or exothermic?

- What is the chemical structure identified at the top of the curve on the diagram?

- What does the symbol E_a represent?

- What does the symbol ΔE represent?



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Applied Statistics I Rebecca M. Warner, 2020-01-14 Rebecca M Warner's bestselling Applied Statistics From Bivariate Through Multivariate Techniques has been split into two volumes for ease of use over a two course sequence Applied Statistics I Basic Bivariate Techniques Third Edition is an introductory statistics text based on chapters from the first half of the original book The author's contemporary approach reflects current thinking in the field with its coverage of the new statistics and reproducibility in research Her in depth presentation of introductory statistics follows a consistent chapter format includes some simple hand calculations along with detailed instructions for SPSS and helps students understand statistics in the context of real world research through interesting examples Datasets are provided on an accompanying website Bundle and Save Applied Statistics I Applied Statistics II Basic Bivariate Techniques Third Edition Bundle Volume I and II ISBN 978 1 0718 1337 9 An R Companion for Applied Statistics I Basic Bivariate Techniques Applied Statistics I Bundle ISBN 978 1 0718 1325 6 Resources in Education ,1995 Teaching Students with Learning Problems Cecil D. Mercer, Ann R. Mercer, 1981 **Flying Magazine** ,2003-05 Resources in Education ,1995 Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed National Information Center for Special Education Materials, 1978

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