

(iii) Suggest why the mean bond enthalpy of a C=C bond is less than twice the mean bond enthalpy of a C—C bond.

(1)

(iv) Use the mean bond enthalpy data in the table, and the equation given below, to calculate a value for the standard enthalpy change of combustion of propene.

(3)

Bond	Mean bond enthalpy / kJ mol ⁻¹
C=C	612
C—C	347
C—H	413
O=O	498
C=O	805
O—H	464



Answer = _____ kJ mol⁻¹



January 2015 Edexcel Ial Ums

Zhe Xu



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Table of Contents January 2015 Edexcel Ial Ums

1. Understanding the eBook January 2015 Edexcel Ial Ums
 - The Rise of Digital Reading January 2015 Edexcel Ial Ums
 - Advantages of eBooks Over Traditional Books
2. Identifying January 2015 Edexcel Ial Ums
 - 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 January 2015 Edexcel Ial Ums
 - User-Friendly Interface
4. Exploring eBook Recommendations from January 2015 Edexcel Ial Ums
 - Personalized Recommendations
 - January 2015 Edexcel Ial Ums User Reviews and Ratings
 - January 2015 Edexcel Ial Ums and Bestseller Lists
5. Accessing January 2015 Edexcel Ial Ums Free and Paid eBooks
 - January 2015 Edexcel Ial Ums Public Domain eBooks
 - January 2015 Edexcel Ial Ums eBook Subscription Services
 - January 2015 Edexcel Ial Ums Budget-Friendly Options
6. Navigating January 2015 Edexcel Ial Ums eBook Formats

- ePub, PDF, MOBI, and More
- January 2015 Edexcel Ial Ums Compatibility with Devices
- January 2015 Edexcel Ial Ums Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of January 2015 Edexcel Ial Ums
 - Highlighting and Note-Taking January 2015 Edexcel Ial Ums
 - Interactive Elements January 2015 Edexcel Ial Ums
- 8. Staying Engaged with January 2015 Edexcel Ial Ums
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers January 2015 Edexcel Ial Ums
- 9. Balancing eBooks and Physical Books January 2015 Edexcel Ial Ums
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection January 2015 Edexcel Ial Ums
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine January 2015 Edexcel Ial Ums
 - Setting Reading Goals January 2015 Edexcel Ial Ums
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of January 2015 Edexcel Ial Ums
 - Fact-Checking eBook Content of January 2015 Edexcel Ial Ums
 - 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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
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