

16. The dissociation of water is shown below:



- At 25 °C, the auto product of water,  $K_w$ , is  $1.0 \times 10^{-14}$  mol/L.  
At 65 °C, the auto product of water,  $K_w$ , is  $1.0 \times 10^{-13}$  mol/L.

17. Explain whether the dissociation of water is an endothermic or exothermic process.  
Endothermic

18. Predict, using a calculation, whether a solution of 1.0 M  $HCl$  is neutral, acidic or basic. (2)

Acidic

19. Explain by calculating pH.

20.  $pK_a$ ,  $pH$  and  $pOH$  are significant notions.

Calculate  $pK_a$  of  $HCl$ .

Give your answer to two decimal places.

$$-\log(4.31 \times 10^{-14}) = 13.07$$

$$pK_a = 13.03 \quad (1)$$

21. A solution of hydrochloric acid is mixed with water and the resulting solution is neutral at 25 °C.

Calculate the pH of the resulting solution at 65 °C.

Give your answer to two decimal places.

$$pH = 13.07$$

pH = \_\_\_\_\_ (2)  
(Total: 10)

# Ocr Chemistry A2 Unofficial Mark Scheme 2014

**Pasan Witharana**



## **Ocr Chemistry A2 Unofficial Mark Scheme 2014:**

The book delves into Ocr Chemistry A2 Unofficial Mark Scheme 2014. Ocr Chemistry A2 Unofficial Mark Scheme 2014 is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ocr Chemistry A2 Unofficial Mark Scheme 2014, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Ocr Chemistry A2 Unofficial Mark Scheme 2014
    - Chapter 2: Essential Elements of Ocr Chemistry A2 Unofficial Mark Scheme 2014
    - Chapter 3: Ocr Chemistry A2 Unofficial Mark Scheme 2014 in Everyday Life
    - Chapter 4: Ocr Chemistry A2 Unofficial Mark Scheme 2014 in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Ocr Chemistry A2 Unofficial Mark Scheme 2014. This chapter will explore what Ocr Chemistry A2 Unofficial Mark Scheme 2014 is, why Ocr Chemistry A2 Unofficial Mark Scheme 2014 is vital, and how to effectively learn about Ocr Chemistry A2 Unofficial Mark Scheme 2014.
  3. In chapter 2, the author will delve into the foundational concepts of Ocr Chemistry A2 Unofficial Mark Scheme 2014. This chapter will elucidate the essential principles that must be understood to grasp Ocr Chemistry A2 Unofficial Mark Scheme 2014 in its entirety.
  4. In chapter 3, the author will examine the practical applications of Ocr Chemistry A2 Unofficial Mark Scheme 2014 in daily life. The third chapter will showcase real-world examples of how Ocr Chemistry A2 Unofficial Mark Scheme 2014 can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Ocr Chemistry A2 Unofficial Mark Scheme 2014 in specific contexts. This chapter will explore how Ocr Chemistry A2 Unofficial Mark Scheme 2014 is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Ocr Chemistry A2 Unofficial Mark Scheme 2014. The final chapter will summarize the key points that have been discussed throughout the book.
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