

- 13 These calculations have used $L = 6.02 \times 10^{23}$
 (a) 7.22×10^{22} (b) 3.01×10^{23}
 (c) 1.20×10^{23}

14 0.53 mol H

15 0.250 mol

- 16 (a) 262.87 g mol⁻¹ (b) 176.14 g mol⁻¹
 (c) 164.10 g mol⁻¹ (d) 248.22 g mol⁻¹

17 189.1 g

18 1.5 mol

19 0.0074 mol Cl⁻

20 1.83×10^{23} C atoms

21 171 g (integer value because no calculator)

22 10.0 g H₂O

23 2.0 mol N₂ > 3.0 mol NH₃ > 25.0 mol H₂ >
 1.0 mol N₂H₄

- 24 (a) CH (b) CH₂O
 (c) C₂H₂O₂ (d) C₂H₄
 (e) C₂H₂ (f) CH₂O

25 Na₂S₂O₅

26 CoSO₄·7H₂O

27 C₁₁H₁₆N

28 NH₃

29 6.94 Li

30 CdS

31 empirical formula CH; molecular formula C₇H₈

32 empirical formula H₂PO₃; molecular formula H₄P₂O₆

33 C₁₂H₁₈N₂P₂O₁₂ for both empirical and molecular formulas

34 C₂H₃O

35 Let y = mass of chalk in grams.

$$\text{moles of chalk used} = \frac{\text{mass used}}{M_r(\text{CaCO}_3)} \times$$

$$y \frac{1 \text{ g}}{100.09 \text{ g mol}^{-1}}$$

This is the same as the number of moles of carbon atoms used.

Therefore the number of carbon atoms used =
 moles of chalk $\times$ (6.02 $\times$ 10²³ mol⁻¹) =
 $\frac{6.02 \times 10^{23} y}{100.09}$

- 36 (a) 2.50 mol (b) 5.63 mol
 (c) 665.5 g

37 (a) $2\text{C}_2\text{H}_6 + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$
 (b) 1.59 g

38 4.355 kg

- 39 (a) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
 (b) 92.8%

(c) CaCO₃ is the only source of CO₂; all the CaCO₃ undergoes complete decomposition; all CO₂ released is captured; heating does not cause any change in the mass of the other minerals present.

- 40 (a) 65.2 g (b) 1.3 g H₂

41 5.23 g C₂H₅Cl₂

42 253.2 g theoretical CaSO₄; 77.9%

43 3.16 g ester

44 107 g of C₂H₆ needed

- 45 (a) 2.40 mol (b) 0.0110 mol
 (c) 44 mol

- 46 (a) 35.65 dm³ (b) 5.7 dm³

47 0.652 dm³

48 0.138 mol Br₂ and 0.156 mol Cl₂, so more molecules of Cl₂

49 0.113 dm³

50 0.28 dm³

51 90 kPa

52 16 °C

53 3.0 dm³

54 2.8 dm³

Pearson Chemistry Workbook Answers Section 14

James Hamblin Smith



Pearson Chemistry Workbook Answers Section 14:

Chemistry: The Central Science Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Darius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation

Applied Chemistry Siddharth Venkatesh, 2025-02-20 Discover the essential aspects of chemistry in various industries with Applied Chemistry Practical Applications This comprehensive textbook provides an in depth understanding of fundamental chemical principles and their real world applications Covering a wide range of topics from chemical reactions and materials science to environmental chemistry and sustainable practices it caters to students researchers and professionals Written by experts our book blends theoretical concepts with practical examples offering a solid foundation in key concepts followed by discussions on their applications in industry technology and everyday life We emphasize sustainability green chemistry principles and environmentally friendly practices Clear explanations of complex topics are supported by diagrams illustrations and tables Our book integrates modern research findings and technological advancements in chemistry End of chapter summaries review questions and exercises reinforce learning and facilitate self assessment Supplementary materials including online resources and laboratory exercises enhance the learning experience Whether you re a student seeking an introduction to applied chemistry or a professional looking to expand your knowledge Applied Chemistry Practical Applications is an invaluable resource for understanding the practical aspects of chemistry in industry technology and society

The Monthly Literary Advertiser ,1838 British Books ,1839

The Publishers' Circular and Booksellers' Record ,1922 The Publisher ,1901 **Publishers' Weekly** ,1904

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The Electrical Review ,1900 Introduction to Materials Science for Engineers James F. Shackelford,2009 For a first course in Materials Sciences and Engineering taught in the departments of materials science mechanical civil and general engineering This text provides balanced current treatment of the full spectrum of engineering materials covering all the physical properties applications and relevant properties associated with engineering materials It explores all of major categories of materials while also offering detailed examinations of a wide range of new materials with high tech applications Publisher s website

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