

chapter 2

Solutions

Overview

Upon completion of this chapter, you should be able to:

- prepare a solution from first principles
- select an appropriate container in which to package a solution
- prepare an appropriate label for a solution
- understand the differing calculations used in the preparation of solutions, including:
 - Basic strength calculations
 - Tailored strength calculations
 - Percentage calculations
 - Parts calculations
 - Millimolar calculations.

Introduction and overview of solutions

Solutions are traditionally one of the oldest dosage forms used in the treatment of patients and afford rapid and high absorption of soluble medicinal products. Therefore, the compounding of solutions retains an important place in therapeutics today. Owing to the simplicity and therefore speed of preparation of an *ad hoc* formulation, they are of particular use for individuals who have difficulty in swallowing solid dosage forms (for example, paediatric, geriatric, intensive care and psychiatric patients), where compliance needs to be checked on administration (for example, in prisons or psychiatric pharmacy) and in cases where precise, individualised dosages are required.

Generally, water is chosen as the vehicle in which medicaments are dissolved, since it is non-toxic, non-irritant, tasteless, relatively cheap and many drugs are water-soluble. Problems may be encountered where active drugs are not particularly water-soluble or suffer from hydrolysis in aqueous solution. In these cases it is often possible to formulate a vehicle containing water mixed with a variety of other solvents.

British Pharmacopoeia (BP) definition (oral solutions)

Oral solutions are oral liquids containing one or more active ingredients dissolved in a suitable vehicle.

Definition

Essentially a solution is a homogeneous liquid preparation that contains one or more dissolved medicaments. Since, by definition, active ingredients are dissolved within the vehicle, uniform doses by volume may be obtained without any need to shake the formulation. This is an advantage over some other formulation types, e.g. suspensions (see Chapter 3).

Chapter 2 Solutions Pharmaceutical Press

Karin Nielsen-Saines



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Table of Contents Chapter 2 Solutions Pharmaceutical Press

1. Understanding the eBook Chapter 2 Solutions Pharmaceutical Press
 - The Rise of Digital Reading Chapter 2 Solutions Pharmaceutical Press
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 2 Solutions Pharmaceutical Press
 - 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 Chapter 2 Solutions Pharmaceutical Press
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 2 Solutions Pharmaceutical Press
 - Personalized Recommendations
 - Chapter 2 Solutions Pharmaceutical Press User Reviews and Ratings
 - Chapter 2 Solutions Pharmaceutical Press and Bestseller Lists

5. Accessing Chapter 2 Solutions Pharmaceutical Press Free and Paid eBooks
 - Chapter 2 Solutions Pharmaceutical Press Public Domain eBooks
 - Chapter 2 Solutions Pharmaceutical Press eBook Subscription Services
 - Chapter 2 Solutions Pharmaceutical Press Budget-Friendly Options
6. Navigating Chapter 2 Solutions Pharmaceutical Press eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 2 Solutions Pharmaceutical Press Compatibility with Devices
 - Chapter 2 Solutions Pharmaceutical Press Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 2 Solutions Pharmaceutical Press
 - Highlighting and Note-Taking Chapter 2 Solutions Pharmaceutical Press
 - Interactive Elements Chapter 2 Solutions Pharmaceutical Press
8. Staying Engaged with Chapter 2 Solutions Pharmaceutical Press
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 2 Solutions Pharmaceutical Press
9. Balancing eBooks and Physical Books Chapter 2 Solutions Pharmaceutical Press
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 2 Solutions Pharmaceutical Press
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 2 Solutions Pharmaceutical Press
 - Setting Reading Goals Chapter 2 Solutions Pharmaceutical Press
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 2 Solutions Pharmaceutical Press
 - Fact-Checking eBook Content of Chapter 2 Solutions Pharmaceutical Press
 - 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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