

SEVENTH EDITION
**PHARMACEUTICAL
DOSAGE FORMS
AND DRUG
DELIVERY SYSTEMS**

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SOLUTIONS

Chapter at a Glance

Solubility

- Inorganic Molecules*
- Organic Molecules*

Some Solvents For Liquid Preparations

- Distillation Method*
- Ion-exchange method*
- Reverse Osmosis*

Preparation of Solutions

Oral Solutions and Preparations for Oral Solution

- Dry Mixtures for Solution*
- Oral Solutions*
- Oral Rehydration Solutions*
- Oral Colonic Lavage Solution*
- Magnesium Citrate Oral Solution*
- Sodium Citrate and Citric Acid Oral Solution*

Syrups

Components of Syrups

- Sucrose and Non-Sucrose Based Syrups*
- Antimicrobial Preservatives*
- Flavorant*
- Colorant*

Preparation of Syrups

- Solution with the Aid of Heat*
- Solution by Agitation without the Aid of Heat*
- Addition of Sucrose to a Medicated Liquid or to a Flavored Liquid*
- Percolation*

Elixirs

Preparation of Elixirs

Nonmedicated Elixirs

Medicated Elixirs

- Antihistamine Elixirs*
- Barbiturate Sedative/Hypnotic Elixirs*
- Phenobarbital Elixir*
- Digoxin Elixir*

Tinctures

Proper Administration and Use of Liquid

Peroral Dosage Forms

Topical Solutions and Tinctures

Topical Solutions

Sprays

- Aluminum Acetate Topical Solution*
- Aluminum Subacetate Topical Solution*

- Calcium Hydroxide Topical Solution*

- Coal Tar Topical Solution*

- Hydrogen Peroxide Topical Solution*

- Chlorhexidine Gluconate Solution*

- Povidone-Iodine Topical Solution*

- Thimerosal Topical Solution*

Vaginal and Rectal Solutions

Vaginal Douches

- Retention Enemas*
- Evacuation Enemas*

Topical Tinctures

- Iodine Tincture*
- Compound Benzoin Tincture*
- Thimerosal Tincture*

Special Application Solutions

Nasal Preparations

- Nasal Decongestant Solutions*

- Inhalation Solutions*

- Examples of Medicated Inhalation Solutions*

- Inhalants*

- Amyl Nitrite Inhalant*

- Propylhexedrine Inhalant*

- Proper Administration and Use of Nasal Drops and Sprays*

- Nasal Route for Systemic Effects*

Otic Solutions

- Cerumen-Removing Solutions*

- Anti-infective, Anti-inflammatory, and Analgesic Ear Preparations*
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