



Liquid Dosage Forms “EMULSIONS”

Objectives:

1. Understand the dispersion system and its components.
2. Understand the Emulsion dosage form and why do we use it.
3. What are the advantages and disadvantages of emulsion dosage form?
4. What are the methods of emulsion preparation?
5. What is the HLB system?

Reading Assignment:

The following pages are your reading From *Ansel's Pharmaceutical Dosage Form and Drug Delivery* for the next topic: **Emulsions**.

1. Reading Chapter 14 “**DISPERSE SYSTEMS**” pages 445-446 until “**SUSPENSION**”.
2. Reading “**EMULSIONS**” pages 465-478.
3. Read and understand Physical Pharmacy Capsule 14.2.” **Sedimentation Rate and Stokes Equation**”. Focus on Stokes Equation”
4. Read and understand Physical Pharmacy Capsule 14.3 “**Gibbs Free Energy in an Emulsion**” . Skip the example. Not expected to calculate it. Understand ΔG and what makes a stable emulsion.
5. Read and understand Physical Pharmacy Capsule 14.5 “ **Blending of Surfactants**”

For the iRAT focus on your reading:

Disperse Systems” pages 445-446 and “**EMULSIONS**” pages 465-478 and Physical Pharmacy Capsule 14.5