

Chapter 23 and Chapter 25 – Analytical Separations and Liquid Chromatography

Objectives and Problems

At the end of this chapter you should:

- Be able to determine how to conduct a simple extraction
Problems: 23.1, 23.2, 23.5, 23.7, 23.8,
- Know basic chromatography terminology and theory
Exercise: 25-B
Problems: 23-15, 23.16, 23.27c,d,f,g, 23.33, 23.34
- Be able to diagram a simple LC system
- Know the differences between normal and reverse phase liquid chromatography
- Know the basic composition of various LC columns and how this influences peak symmetry
Problems: 25.3, 25.6, 25.8, 25.13, 25.15
- Know the difference between an isocratic and gradient elution
- Understand the importance of solvent type and strength in liquid chromatography
Problems: 25.1, 25.2
- Understand basic types of bulk property detectors and solute property detectors

Problem Set #9 (due Wednesday December 5th)**Exercise: 25-B****Problems: 23.27 (only part c, d, f and g), 23-34, 25-8, 25-13**