

## 6. TITRIMETRIC ANALYSIS

### **6.1 Introduction**

Titrimetric analysis covers a quite large group of methods which have a long tradition in quantitative analysis. Owing to their advantageous characteristics, they are still used in the laboratories as definitive methods. Especially when they can be used with instrumental end-point detection. These are the titration methods with electrochemical, reagent generation (coulometric) and/or electrochemical (potentiometric, amperometric, conductometric), thermoanalytical, optical or radiochemical detections. See the corresponding sections of Chapters 8, 5, 10, 11, 16.

This chapter includes the basic principles and terms of the titrimetric analytical methods and the use of the equivalence concept traditionally bound to the theory and practice of titration methods. There is also a section devoted to those terms which are connected with the use of visual indicators. With regard to the instrumental endpoint indication the corresponding sections (referred to above) should be consulted.

The terms titrimetric and volumetric analysis are not synonyms. Because the amount of titrant during the process can be measured either volumetrically or by its mass using a weighing device.