



A titrimetric analysis requires the careful addition of titrant.

Experiment 9

A Volumetric Analysis

- To prepare and standardize a sodium hydroxide solution
- To determine the molar concentration of a strong acid

OBJECTIVES

The following techniques are used in the Experimental Procedure:

TECHNIQUES



A chemical analysis that is performed primarily with the aid of volumetric glassware (e.g., pipets, burets, volumetric flasks) is called a **volumetric analysis**. For a volumetric analysis procedure, a known quantity or a carefully measured amount of one substance reacts with a to-be-determined amount of another substance with the reaction occurring in aqueous solution. The volumes of all solutions are carefully measured with volumetric glassware.

The known amount of the substance for an analysis is generally measured and available in two ways:

1. As a **primary standard**—An accurate mass (and thus, moles) of a solid substance is measured on a balance, dissolved in water, and then reacted with the substance being analyzed.
2. As a **standard solution**—A measured number of moles of substance is present in a measured volume of solution, generally expressed as the molar concentration (or molarity) of the substance. A measured volume of the standard solution then reacts with the substance being analyzed.

The reaction of the known substance with the substance to be analyzed, occurring in aqueous solution, is generally conducted by a titration procedure.

The titration procedure requires a buret to dispense a liquid, called the **titrant**, into a flask containing the **analyte** (Figure 9.1a, page 134). For the acid–base titration studied in Part B of this experiment, the titrant is a standard solution of sodium hydroxide and the analyte is an acid.

INTRODUCTION

Primary standard: a substance that has a known high degree of purity, a relatively large molar mass, is nonhygroscopic, and reacts in a predictable way

Standard solution: a solution having a very well known concentration of a solute

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Daniela Niemeyer



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web this course provides theoretical training to artisans and is offered via the nated programme n2 is the intermediate level in this 3 level engineering programme learn the skills and techniques to manufacture construct assemble and fit components for machinery vehicles installations and other apparatus or articles

nc v engineering related design fitting turning nqf - Apr 26 2022

web the national certificate vocational for fitting turning comprises four engineering subjects including practical assessments in the fitting turning workshop fitters turners are highly skilled artisans who manufacture and construct components for machinery and use tools such as lathes milling and drilling machines

mechanical engineering n1 n6 studies and course - Feb 05 2023

web the compulsory subjects for fitting and turning n1 n3 are mathematics engineering science and engineering drawing and for n1 n2 you need to do fitting and machining however in n3 fitting and machining is replaced by mechanotechnology

fitting and turning nqf level 3 department of - Mar 06 2023

web these objectives are to create an integrated national framework for learning achievements facilitate access to and progression within education training and career paths enhance the quality of education and training redress unfair discrimination and past imbalances and thereby accelerate employment opportunities contribute to