



## EXPERIMENT 5

### *Determination of Acid Content in Vinegars by Titration with Sodium Hydroxide*

Vinegar is a common household ingredient that is used particularly in cooking and sometimes in cleaning. It is formed by aerobic bacteria oxidizing grain alcohol to acetic acid ( $\text{CH}_3\text{COOH}$ ), which is the primary ingredient for vinegars, and water. According to the specified rule of law, a vinegar can only be sold at the market if the solution contains at least 5% w/v of acetic acid. In this experiment, acid-base titration will be used to measure the total acid concentration in different varieties of vinegar, and the determination if the vinegar meets the minimum acetic acid concentration will be done. The percent acetic acid will also be calculated to test the authenticity of the total acidity based on the vinegar's label.

#### **CHEMICALS/MATERIALS/EQUIPMENT:**

Same set with experiment 4, except that the unknown sample must be contained in vials with fitted snug covers instead of weighing bottles.

#### **PROCEDURE:**

Same set of procedures (Parts A and B) with experiment 4.

#### **C. Analysis of unknown sample**

*Note: For this experiment, the unknown vinegar sample must be stored in individual vials with snug covers.*

1. Pipet 10.00-mL aliquot of the unknown vinegar sample into a 250-mL Erlenmeyer flask.
2. Add about 50 mL of distilled water and 2 drops of phenolphthalein indicator to each vessel. You may increase the amount of indicator as necessary to make the color changes visible in turbid samples.
3. Titrate with the standardized NaOH titrant until the phenolphthalein endpoint is reached and report the acidity of the vinegar as % (w/v)  $\text{CH}_3\text{COOH}$ . Compute also for the mean, SD, and % RSD for the triplicate measurements.

Unknown: Datu Puti, 4.5% acidity, good results

#### **DATA AND RESULTS**

*Note: You may devise your own on your logbook. Make sure that it presents your data in a CLEAN, LEGIBLE, COMPLETE, and TRUTHFUL manner.*

# Lab Manual Expt 5 Breathalyzer Reaction

**J Spring**



## Lab Manual Expt 5 Breathalyzer Reaction:

**Lab Manual for Investigating Chemistry** David Collins (Ph. D.), Matthew Johll, 2008-12-02 While many of the core labs from the first edition have been retained a renewed focus on the basics of chemistry and the scientific process create an even more detailed supplemental offering

**The Drug Expert** Craig W. Stevens, 2020-01-08 The Drug Expert A Practical Guide to the Impact of Drug Use in Legal Proceedings targets academic and industry pharmacologists pharmacology graduate students and professionals and students of affiliated disciplines such as pharmacy and toxicology Users will find it to be an invaluable reference for those involved in the field In addition pharmacists and others who increasingly serve as expert witnesses and toxicologists will find an array of very useful information Focuses on important topics for the consulting pharmacologist including prescription over the counter and illegal drugs and their effects on criminal and civil proceedings Details the how to aspects of being an expert witness in pharmacology by presenting real life cases and effective tips and experiences Includes several appendices such as a sample letter of engagement and fee schedule a litigation report a consulting invoice and valuable resources

**FORENSIC ALCOHOL TEST EVIDENCE (FATE)** John Brick ,2016-10-04 Everyday problems associated with the consequences of alcohol use disorders require answers and it is for this reason Forensic Alcohol Test Evidence FATE was written Forensic alcohol test evidence focuses on the evaluation interpretation and application of the effects of alcohol or an alcohol test result to some legal issue such as a crime accident or consequence of alcohol exposure In FATE many of the issues pertinent to a thorough forensic evaluation and trial testimony are discussed but most importantly is the focus on consistent unbiased and comprehensive application of diverse scientific disciplines and research to questions of forensic interest This requires evaluating behavioral analytical physiological pharmacological and toxicological evidence in the puzzle determining if the pieces go together and reaching a conclusion to a reasonable degree of scientific certainty The first chapter discusses what is forensic alcohol test evidence and why it is studied Chapter 2 explores forensic alcohol evidence and what are the types of alcohol and quantitative expression of blood alcohol Chapter 3 examines alcohol pharmacokinetics alcohol pharmacodynamics site of alcohol action and basic neurophysiology Neuropharmacology of alcohol intoxication is also discussed Chapter 4 covers laboratory and clinical based tests of impairment In Chapter 5 DWI high risk behaviors and injuries are discussed Chapter 6 defines alcohol and the law drunk driving visible intoxication and aggression while Chapter 7 covers the DWI investigation and arrest elements of the DWI report outside vehicle test and obtaining blood samples Chapters 8 and 9 describe alcohol drug interactions and medical consequences and toxicological considerations Chapters 10 and 11 pursue alcohol use tolerance dependence and the need for standardization and estimating blood alcohol levels The remaining two chapters cover accident reconstruction and neuropsychology This book will be an essential tool and valuable resource for all law enforcement officers and investigators forensic examiners and other professionals in the evaluation and interpretation of alcohol evidence in crimes and accidents

**Alcohol, Drugs, and Impaired Driving** A. Wayne Jones, Jorg Morland, Ray H. Liu, 2020-06-15 Alcohol Drugs and Impaired Driving addresses many theoretical and practical issues related to the role played by alcohol and other psychoactive drugs on driving performance road traffic safety and public health Several key forensic issues are involved in the enforcement of laws regulating driving under the influence of alcohol and or other drugs including analytical toxicology pharmacology of drug action as well as the relationships between dose taken concentration levels in the body and impairment of performance and behavior Our knowledge of drunken driving is much more comprehensive than drugged driving so a large part of this book is devoted to alcohol impairment as well as impairment caused by use of drugs other than alcohol For convenience the book is divided into four main sections The first section gives some historical background about measuring alcohol in blood and breath as evidence for the prosecution of traffic offenders The important role of the Breathalyzer instrument in traffic law enforcement especially in Australia Canada and the USA is presented along with a biographical sketch of its inventor Professor Robert F Borkenstein of Indiana University with focus on the man his work and his impact The second section discusses several issues related to forensic blood and breath alcohol alcohol analysis as evidence for prosecution of traffic offenders This includes how the results should be interpreted in relation to impairment and an evaluation of common defense challenges Because most countries have adopted concentration per se laws the main thrust of the prosecution case is the suspect's measured blood or breath alcohol concentration This legal framework necessitates that the analytical methods used are fit for purpose and are subjected to rigorous quality assurance procedures The third section gives a broad overview of the current state of knowledge about driving under the influence of non alcohol drugs in various countries This includes adoption of zero tolerance laws concentration per se statutes and clinical evidence of driver impairment based on field sobriety tests and drug recognition expert evidence The fourth section deals with epidemiology enforcement and countermeasures aimed at reducing the threat of drunken and drugged driving All articles have appeared previously in the international journal Forensic Science Review but all are completely updated with current data references and the latest research on developments since the articles were published This book contains a convenient collection of the best articles covering recommendations for blood and breath testing methods public policy relating to such methods and forensic and legal implications of the enforcement of measures to counter driving under the influence

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