

### Acid/Base Titration Practice Problems – Set 3

1. What is the pH of the solution when 25.00 mL 0.016 M lactic acid ( $\text{HC}_3\text{H}_5\text{O}_3$ ,  $K_a = 1.4 \times 10^{-4}$ ) is titrated with the following volumes of 0.010 M NaOH?

A. 0.00 mL

$$1.4 \times 10^{-4} = (x)(x)/(0.016 - x)$$

$$x = 0.00143$$

$$\text{pH} = -\log(0.00143) = 2.84$$

B. 10.00 mL



B	0.00040	0.00010	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00010-x	x	---
---	-----------	-----------	---	-----

	0.00030	0	0.00010	---
--	---------	---	---------	-----

$$\text{pH} = 3.45 \text{ (3.38... Henderson-Hasselbalch answer)}$$

C. 20.00 mL



B	0.00040	0.00020	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00020-x	x	---
---	-----------	-----------	---	-----

	0.00020	0	0.00020	---
--	---------	---	---------	-----

$$\text{pH} = 3.88 \text{ (3.85... Henderson-Hasselbalch answer)}$$

D. 30.00 mL



B	0.00040	0.00030	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00030-x	x	---
---	-----------	-----------	---	-----

	0.00010	0	0.00030	---
--	---------	---	---------	-----

$$\text{pH} = 4.35 \text{ (4.33... Henderson-Hasselbalch answer)}$$

E. 40.00 mL



B	0.00040	0.00040	0	---
---	---------	---------	---	-----

C	-x	-x	+x	---
---	----	----	----	-----

A	0.00040-x	0.00040-x	x	---
---	-----------	-----------	---	-----

	0	0	0.00040	---
--	---	---	---------	-----

ICE table with  $\text{C}_3\text{H}_5\text{O}_3^- + \text{H}_2\text{O} \rightleftharpoons \text{HC}_3\text{H}_5\text{O}_3 + \text{OH}^-$  ( $K_b$ )

$$7.14 \times 10^{-11} = (x)(x)/[0.00040 \text{ mol}/0.0650 \text{ L}] - x)$$

$$x = 6.63 \times 10^{-7}; \text{ so pOH} = 6.18 \text{ and pH} = 7.82$$

# Titration Problem And Solution Practice Answers

**J Dewey**



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*Analytical Chemistry for Technicians* John Kenkel, 2002-10-29 Surpassing its bestselling predecessors this thoroughly updated third edition is designed to be a powerful training tool for entry level chemistry technicians *Analytical Chemistry for Technicians Third Edition* explains analytical chemistry and instrumental analysis principles and how to apply them in the real world A unique feature of this edition is that it brings the workplace of the chemical technician into the classroom With over 50 workplace scene sidebars it offers stories and photographs of technicians and chemists working with the equipment or performing the techniques discussed in the text It includes a supplemental CD that enhances training activities The author incorporates knowledge gained from a number of American Chemical Society and PITTCON short courses and from personal visits to several laboratories at major chemical plants where he determined firsthand what is important in the modern analytical laboratory The book includes more than sixty experiments specifically relevant to the laboratory technician along

with a Questions and Problems section in each chapter Analytical Chemistry for Technicians Third Edition continues to offer the nuts and bolts of analytical chemistry while focusing on the practical aspects of training

**Course in Pharmaceutical and Chemical Arithmetic** Julius William Sturmer, 1917

**Karl Fischer Titration** Eugen Scholz, 2012-12-06 The Karl Fischer titration is used in many different ways following its publication in 1935 and further applications are continually being explored At the present time we are experiencing another phase of expansion as shown by the development of new titration equipment and new reagents KF equipment increasingly incorporates microprocessors which enable the course of a titration to be programmed thus simplifying the titration Coulometric titrators allow water determinations in the micro gram range the KF titration has become a micro method The new pyridine free reagents make its application significantly more pleasant and open up further possibilities on account of their accuracy To make the approach to Karl Fischer titrations easier we have summarized the present knowledge in this monograph and we have complemented it with our own studies and practical experience As this book should remain readable we have tried to keep the fundamentals to a minimum Historical developments are only mentioned if they seem to be necessary for understanding the KF reaction The applications are described more fully Specific details which may interest a particular reader can be found in the original publications cited The referenced literature is in chronological order as the year of publication may also prove informative Thus 6902 for example denotes 69 for 1969 being the year of publication and 02 is a non recurring progressive number The referenced literature includes summaries which we hope will be of help to find the right publication easily

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**Biophysical, Chemical, and Functional Probes of RNA Structure, Interactions and Folding: Part A** Daniel Herschlag, 2009-11-16 This MIE volume provides laboratory techniques that aim to predict the structure of a protein which

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Food Analysis Suzanne Nielsen, 2014-09-04 This book provides information on the techniques needed to analyze foods in laboratory experiments All topics covered include information on the basic principles procedures advantages limitations and applications This book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry General information is provided on regulations standards labeling sampling and data handling as background for chapters on specific methods to determine the chemical composition and characteristics of foods Large expanded sections on spectroscopy and chromatography also are included Other methods and instrumentation such as thermal analysis ion selective electrodes enzymes and immunoassays are covered from the perspective of their use in the analysis of foods A website with related teaching materials is accessible to instructors who adopt the textbook

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