

General Chemistry II Hybrid Lab Course (CHEM 1108): Lab Report

CHEM 1108 - CRN: 11628

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Experiment Number: 7

Lab Title: Weak acid-strong base titration

Objective: make molar solutions and titrate sodium hydroxide and acetic acid. Calculate volume, temperature, and the pH.

Chemical Table:

Chemical Name	Chemical Formula	Molar Mass (g/mol)	Hazards	SDS Reference Number	PPE
Distilled water	H ₂ O	18 g/mol	Skin irritation	1	Lab coat, goggles
Sodium hydroxide	NaOH	39.997 g/mol	Severe burns to the eyes and skin	2	Lab coat, goggles, gloves
Acetic acid	CH ₃ COOH	60.052 g/mol	Flammable liquid, severe burns, harmful if swallowed, skin irritation	3	Lab coat, goggles


References:

1: <http://www.nano.pitt.edu/sites/default/files/MSDS/Gas/Distilled%20Water%20Gas.pdf>

2: https://beta-static.fishersci.com/content/dam/fishersci/en_US/documents/programs/education/regulatory-documents/sds/chemicals/chemicals-s/S2S881.pdf

3: https://beta-static.fishersci.com/content/dam/fishersci/en_US/documents/programs/education/regulatory-documents/sds/chemicals/chemicals-a/S2S118.pdf

Equipment:

Type of Equipment (include capacity wherever required)	Image	Purpose
Volumetric flask		Use to make the 1 molar solutions.

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Marion Effie Potter



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Global Warming Causes Impacts and Solutions covers all aspects of global warming including its causes impacts and engineering solutions Energy and environment policies and strategies are scientifically discussed to expose the best ways to reduce global warming effects and protect the environment and energy sources affected by human activities The importance of green energy consumption on the reduction of global warming energy saving and energy security are also discussed This book also focuses on energy management and conservation strategies for better utilization of energy sources and technologies in buildings and industry as well as ways of improving energy efficiency at the end use and introduces basic methods for designing and sizing cost effective systems and determining whether it is economically efficient to invest in specific energy efficiency or renewable energy projects and describes energy audit producers commonly used to improve the energy efficiency of residential and commercial buildings as well as industrial facilities These features and more provide the tools necessary to reduce global warming and to improve energy management leading to higher energy efficiencies In order to reduce the negative effects of global warming due to excessive use of fossil fuel technologies the following alternative technologies are introduced from the engineering perspective fuel cells solar power generation technologies energy recovery technologies hydrogen energy technologies wind energy technologies geothermal energy technologies and biomass energy technologies These technologies are presented in detail and modeling studies including case studies can also be found in this book *National Agricultural Library Catalog* National Agricultural Library (U.S.), 1978 *Druggists Circular* ,1927 **Nuclear Science Abstracts** ,1962 The Publishers' Trade List Annual ,1982 Journal of the Society of Chemical Industry Society of Chemical Industry (Great Britain), 1907 *The Publishers Weekly* ,1917 **The United States Catalog** ,1921 Normal Instructor and Primary Plans ,1921 *The United States Catalog* Eleanor E. Hawkins, 1921 The United States Catalog: Books in Print January 1, 1912 Marion Effie Potter, 1921 *The United States Catalog Supplement, January 1918-June 1921* Eleanor E. Hawkins, 1921

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