

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.

Chem 1108 Lab Manual Answers

RJ Alexander



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