

	Reaction 1	Reaction 2	Reaction 3
1. Initial temperature	22.0°C	23.0°C	23.0°C
2. Final temperature	24.0°C	21.0°C	26.0°C
3. The change in temperature, ΔT	+2.0°C	-2.0°C	3.0°C
4. Heat, Q, absorbed by the solution = mass of soln. × ΔT × 1 cal/g °C Note: Mass = sum of masses of solids and liquids used.	151.6g × 2.0°C = 303.2 cal	160ml × 4.184 cal/g°C = 640 cal	156.15g - 9.27g = 156.88g × 3.0°C = 470.64 cal
5. The amount of heat absorbed by the cup (neglect this quantity)	neglect	neglect	neglect
6. TOTAL amount of heat, Q, absorbed	303.2 cal	640 cal	470.64 cal
7. The number of moles of NaOH used in each reaction For solid: gNaOH × 1/MM NaOH For solution: L NaOH × Molarity	0.04 mol	0.04 mol	0.04 mol
8. The heat of reaction per mole of NaOH, ΔH. Include sign. (Line 6/Line 7)	7,580 cal	16,000 cal	11,766 cal

(FOR EACH)

Questions

- Write the net ionic equations for reactions 1, 2, and 3.
- In reaction 1, ΔH<sub>1</sub> represents the heat of solution of NaOH(s). Look at the net ionic equations for reactions 2 and 3 and make a statement concerning the significance of ΔH<sub>2</sub>, that is, what has happened to produce the energy change. Also explain the meaning of ΔH<sub>3</sub>.
- How does ΔH<sub>2</sub> compare with the sum of ΔH<sub>1</sub> + ΔH<sub>3</sub>. Explain.
- Calculate the percent difference between ΔH<sub>2</sub> and the SUM of ΔH<sub>1</sub> + ΔH<sub>3</sub>, using ΔH<sub>2</sub> as the reference.

HCl 23.0°C  
NaOH 23.0°C

$$\frac{\text{Difference}}{\Delta H_2} \times 100\% =$$

\_\_\_\_\_ % difference

# Answers To Lab 42 Neutralization Reactions

**R Bogdan**



**Answers To Lab 42 Neutralization Reactions:**

## **Answers To Lab 42 Neutralization Reactions** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Answers To Lab 42 Neutralization Reactions**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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