

Procedure for making NaOH-Aid (for every lab group of 3-4 people):

1. Using your calculations from question #4 above, measure out the correct amount of solid NaOH powder (grams) into the assigned cup to make a 0.1 M solution. **Be careful not to include the mass of the cup in your measurement!**
2. Transfer the powder into the assigned "mixing cup".
3. Add water into the "mixing cup" until you have 100 mL of solution. Stir with a spoon or stick.
4. Observe and taste the solutions you have made. You can have one "designated taster" or you can pour a little into separate little cups for each group member to taste. Record in data table.
5. Repeat steps 1-3 in order to make the 0.4 M and 0.7 M solutions.
6. Clean-Up... Throw away cups that you drank out of, but save the mixing & measuring cups.

Data / Observations:

	0.1 M solution	0.4 M solution	0.7 M solution
Observations (taste (color), smell, notes)	Answers will vary	Answers will vary	Answers will vary

Calculations / Analysis:

1. Which concentration that you tasted was closest to the ideal concentration of NaOH-Aid? What was wrong with each of the other solutions that you made?

Answers will vary... Some solutions will not have enough NaOH-Aid for your taste, while others will have too much.

2. What was the solute used in this lab? What was the solvent?

Solute = NaOH-Aid powder Solvent = water

3. What is molarity?

Molarity is a measure of the number of moles of solute per liter of solution.

Questions for Discussion:... You must show the formula, all your work, and **highlight** your answer!

1. Write the formula for the 4 different ways to calculate concentrations:

- a. Molarity

$$M = \frac{\text{moles}}{\text{volume}}$$

- a. grams/Liter

$$\frac{\text{grams of solute}}{\text{volume of solution}}$$

- a. % composition

$$\frac{\text{grams of solute}}{\text{grams of solution}} \times 100$$

- a. Parts per million

$$\frac{\text{grams of solute}}{\text{grams of solution}} \times 10^6$$

Determine the following concentrations, using the 4 different methods:

****Disclaimer: 1 gram NaOH = 1 mL @ 1% = 1000 mL****

1. If 1.00 moles of NaOH was dissolved in enough water to make 0.05 L of solution:

- a. Molarity?

$$M = \frac{1.0 \text{ mol}}{0.05 \text{ L}}$$

$$M = 0.050 \text{ M NaOH}$$

- a. Grams/Liter?

$$\frac{40 \text{ g NaOH}}{0.05 \text{ L}}$$

$$= 800 \text{ g/L}$$

- a. % composition?

$$\frac{40 \text{ g NaOH}}{1000 \text{ g}} \times 100$$

$$= 2.00\% \text{ NaOH}$$

- a. Parts per million?

$$\frac{40 \text{ g NaOH}}{1000 \text{ g}} \times 10^6$$

$$= 200,000 \text{ ppm}$$

2. If 20 grams of NaOH was dissolved in enough water to make a 250 mL NaOH solution:

- a. Molarity?

$$M = \frac{0.5 \text{ mol}}{0.25 \text{ L}}$$

$$M = 0.2 \text{ M NaOH}$$

- a. Grams/Liter?

$$\frac{20 \text{ g NaOH}}{0.25 \text{ L}}$$

$$= 80 \text{ g/L}$$

- a. % composition?

$$\frac{20 \text{ g NaOH}}{250 \text{ g}} \times 100$$

$$= 8\% \text{ NaOH}$$

- a. Parts per million?

$$\frac{20 \text{ g NaOH}}{250 \text{ g}} \times 10^6$$

$$= 80,000 \text{ ppm}$$

Kool Aid Lab Answer Key

Stacy Simpkins

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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