Mass (g) of sodium bromide weighed on the balance

5.587

Try 1: x precise measuring The procedure asks you to create a dilute solution that is 12.5 mL of stock salt solution and 12.5 mL of DI water. Do you think it is more important to: precisely Correct Answer: volumes are equal measure 12.5 mL OR to make sure the volume of salt solution is the same as the volume of water added?

8 8

If your volume changes due to evaporation between trials 1 & 2, do you think it will significantly impact the measured boiling point? Why? NOTE: There is not a "right" answer, but you need to have clear justification for your answer.



Volume is not part of the equations used in these calculations so it will not affect the measured boiling point.

Edit Answer

[But if the volumn decrease, the molality of salt will increase. so the bp will be impacted but not significant.]

Molality of 25.0 mL sample of your original 50 mL sodium bromide solution.

Try 1: 🗸 1.1

NOTE: This is an experimental value so use the experimental mass you submitted above. This is asking what happens if you pour some from the volumetric flask into a beaker. That's it

3 3 Info

Try 1: X 1.1

Molality of the sodium bromide solution made by mixing 12.5 mL of the 1.1m sodium bromide and 12.5 mL distilled water.

Preview from Notes ale. Co. UKS

Preview page 2 of 3

Prepoint (°C) of 1.1m sodium bromide solution

1. point (°C) of 0.55

	Trial 1	Trial 2
Boiling point (°C) of 1.1m sodium bromide solution	105.1 Edit	106.1 Edit
Boiling point (°C) of 0.55m sodium bromide solution	108.0 Edit	108.5 Edit

Try 1: 🗸 106

Average boiling point (°C) of 1.1m sodium bromide solution

3 3 Info

Try 1: 🗸 108

Average boiling point (°C) of 0.55m sodium bromide solution

3 3 Info

Does the experimental boiling point elevation match the theoretical boiling point elevation within experimental error (± 0.1°C). NOTE: Use your higher molality boiling point average.

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