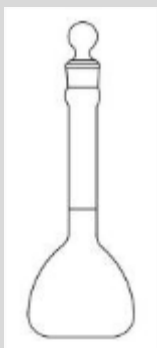


Dilution Worksheet:

1. How would you prepare 25.00 mL of 0.1210 M CH_3COOH solution from a 0.3003 M CH_3COOH solution? Calculate and fill in the plan of action.

Plan of action (watch significant figures):



I would pipet _____ mL of CH_3COOH from the
(volume in mL)

_____ M CH_3COOH solution into a volumetric flask.
(concentration)

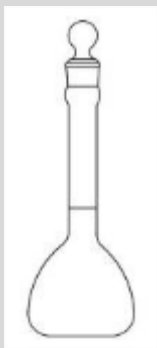
Then I would add water to make the volume up to the mark in the volumetric

flask to obtain a total volume of _____ L of a
(volume in L)

_____ M CH_3COOH solution.
(concentration)

2. How would you prepare 10.00 mL of 0.6520 M HCl solution from a 1.255 M HCl solution?
Calculate and fill in the plan of action.

Plan of action (watch significant figures):



I would pipet _____ mL of HCl from the
(volume in mL)

_____ M HCl solution into a volumetric flask.
(concentration)

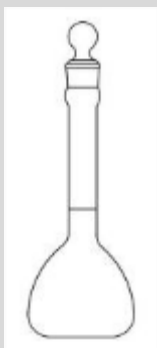
Then I would add water to make the volume up to the mark in the volumetric

flask to obtain a total volume of _____ L of a
(volume in L)

_____ M HCl solution.
(concentration)

3. How would you prepare 5.00 mL of 0.01100 M NaOH solution from a 0.9885 M NaOH solution? Calculate and fill in the plan of action.

Plan of action (watch significant figures):



I would pipet _____ mL of NaOH from the
(volume in mL)

_____ M NaOH solution into a volumetric flask.
(concentration)

Then I would add water to make the volume up to the mark in the volumetric

flask to obtain a total volume of _____ L of a
(volume in L)

_____ M NaOH solution.
(concentration)