



Suggested answers to in-text activities and unit-end exercises

Topic 6 Unit 24

In-text activities

Checkpoint (page 38)

- 1 a) P–H non-polar
 $\delta^- \quad \delta^+$
 b) H–F
 $\delta^- \quad \delta^+$
 c) O–N
 $\delta^- \quad \delta^+$
 d) F–F non-polar
 $\delta^- \quad \delta^+$
 e) N–H
 $\delta^- \quad \delta^+$
 f) C–I non-polar

- 2 In NH_3 , the bond pairs of electrons are attracted towards the nitrogen atom to a greater extent as nitrogen is more electronegative than hydrogen.

The bond pairs of electrons repel each other to a greater extent and thus the H–N–H bond angle is greater.

In NF_3 , the bond pairs of electrons are closer to the fluorine atom as fluorine is more electronegative than nitrogen.

The bond pairs of electrons repel each other to a less extent and thus the F–N–F bond angle is smaller.

Checkpoint (page 44)

Molecular formula	Electron diagram	Shape of molecule	Polar bond	Polar molecule?
H_2O	$\begin{array}{c} \text{H} \times \times \text{O} \times \times \\ \times \times \times \times \\ \text{H} \end{array}$	V-shaped	O–H	yes
BeH_2	$\text{H} \times \times \text{Be} \times \times \text{H}$	linear	Be–H	no
CH_2F_2	$\begin{array}{c} \text{H} \\ \times \times \times \times \\ \text{H} \times \times \text{C} \times \times \text{F} \times \times \\ \times \times \times \times \\ \times \times \text{F} \times \times \\ \times \times \end{array}$	tetrahedral	C–F	yes
Cl_2O	$\begin{array}{c} \times \times \times \times \\ \times \times \text{Cl} \times \times \text{O} \times \times \\ \times \times \times \times \\ \times \times \text{Cl} \times \times \\ \times \times \end{array}$	V-shaped	Cl–O	yes

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Answer

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web conclusion the purpose of the experiment was to identify the unknown solid acid 17 by calculating its molar mass this was done by titration of the acid with sodium hydroxide in order to find the volume of sodium hydroxide required to reach the

end point and that value was used in unit analysis to find the molar mass and identify the unknown solid acid

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web by utilizing the half equivalence point on the titration curve the pka of the acid analyte was determined to be 3.655 furthermore using the stoichiometric ratio between the naoh and the acid analyte 1:1 we could experimentally determine the number of moles of the acid in the solution to be 0.00731 moles making the experimental molar mass

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web goals understand that parts of an acid base titration be able to determine the K_a or K_b from pH data associated with the titration of a weak acid or base be able to determine the molar mass of a solid monoprotic acid from titration data be able to calculate K_{a1} and K_{a2} for a polyprotic acid by the end of this lab students should be able to

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web titration experiment in the neutralization of hydrochloric acid by sodium hydroxide the mole ratio of acid to base is 1:1
 $HCl(aq) + NaOH(aq) \rightarrow NaCl(aq) + H_2O(l)$
one mole of HCl would be fully neutralized by one mole of NaOH

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web conclusion the identification of an unknown solid acid the purpose of this experiment was to determine the standardization of sodium hydroxide (NaOH) and oxalic acid ($H_2C_2O_4 \cdot 2H_2O$) and the molar mass of an unknown solid acid using the molar mass of the standardized sodium hydroxide solution

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web specifically an acid base titration can be used to figure out the concentration of an acid or base whether an unknown acid or base is strong or weak pK_a of an unknown acid or pK_b of the unknown base key terms titration a process where a

solution of known strength is added to a certain volume of a treated sample containing an

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web conclusion this lab evaluated an acid base reaction with the volumetric analysis of a standard solution being naoh reaction with a 2nd substance $\text{H}_2\text{C}_2\text{O}_4$ aq 2NaOH aq $\text{Na}_2\text{C}_2\text{O}_4$ $4\text{H}_2\text{O}$ to differentiate an acid from a base in a solution a ph scale is used the ph scale ranges from 0 to 14 a ph of 7 is neutral in an acid base reaction

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web this point of titration is referred to as the equivalence point considering the 1 1 stoichiometry of this acid base reaction NaOH aq $\text{C}_6\text{H}_4\text{COOH}$ aq $\text{C}_6\text{H}_4\text{COONa}$ aq H_2O l the point of equivalence is the point of titration when the number of moles of naoh added is equal to the number of moles of khp in the