

## Compiled Exam

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far he positiv unkno Carbo	lent is trying to work out the formula of an unknown acid he was given. So knows that the formula takes the form $H_nXO_3$ , where n is an unknown we integer and X is an own non-metallic element which can either be Phosphorous (P), Sulfur (S), n (C) or Nitrogen (N). To determine which of the four elements X actually the unknown acid, the student performs a series of titrations.
	udent decides to prepare a secondary standard solution of NaOH by titrating a primary standard solution of 0.1064 mol/L of HCI.
conce	esult was that 25.00mL of NaOH required 25.00mL of HCI with ntration 0.1064 for an end-point with the indicator colour change.
solutio	udent then dissolved 2.569 grams of $H_nXO_3$ in water to make a 250.0mL on. He performed a titration with the unknown acid $H_nXO_3$ and the standard solution.
	esult was that 25.00mL of the standard NaOH required 16.31mL of H <sub>n</sub> XO <sub>3</sub> on for an end-point with the indicator colour change.
(a) Ex	plain why the concentration of the NaOH is 0.1064 mol/L.

(b) Write down the complete neutralisation equation between H <sub>n</sub> XO <sub>3</sub> and the standard NaOH solution in terms of n.
(c) Determine the identity of X and the value of n using the given choices. Justify your answer.

xplain how the pH of this solution would be affect by the addition of a small mount of sodium hydroxide solution. Include an equation in your answer.  Describe the uses PS in terms of its properties.
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its cost and practicality:	
button cell, fuel cell, var photovoltaic device (e.g	nadium redox cell, lithium cell, liquid junction g. Gratzel cell).
Construct the complete	equation of the dehydration of ethanol.

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