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## HL Paper 2

Benzoic acid,  $\text{C}_6\text{H}_5\text{COOH}$ , is another derivative of benzene.

- Identify the wavenumber of one peak in the IR spectrum of benzoic acid, using section 26 of the data booklet. [1]
  - Identify the spectroscopic technique that is used to measure the bond lengths in solid benzoic acid. [1]
  - Outline one piece of physical evidence for the structure of the benzene ring. [1]
  - Draw the structure of the conjugate base of benzoic acid showing **all** the atoms and **all** the bonds. [1]
  - Outline why both C to O bonds in the conjugate base are the same length and suggest a value for them. Use section 10 of the data booklet. [2]
- f(i). The pH of an aqueous solution of benzoic acid at 298 K is 2.95. Determine the concentration of hydroxide ions in the solution, using section 2 of the data booklet. [2]
- f(ii) Formulate the equation for the complete combustion of benzoic acid in oxygen using only integer coefficients. [2]
- The combustion reaction in (f)(ii) can also be classed as redox. Identify the atom that is oxidized and the atom that is reduced. [1]
  - Suggest how benzoic acid,  $M_r = 122.13$ , forms an apparent dimer,  $M_r = 244.26$ , when dissolved in a non-polar solvent such as hexane. [1]
  - State the reagent used to convert benzoic acid to phenylmethanol (benzyl alcohol),  $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$ . [1]

A student performs a titration to determine the concentration of ethanoic acid,  $\text{CH}_3\text{COOH}$ , in vinegar using potassium hydroxide.

The pH curve for the reaction is given.



# Ib Chem Hl November 2013 Paper 2

**Ying-Ying Zheng**

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

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