

Qualitative analysis of an organic compound showed that it contained only carbon, hydrogen and oxygen. A quantitative study of the same compound was performed, in which a 0.5096 g sample was burnt in excess oxygen to produce 0.4160 g of water and 700.7 mL of carbon dioxide, collected at 100.0 °C and 102.8 kPa.

373K

(a) Determine the empirical formula of the compound.

(10 marks)

C	H	O
<p>0.7007 L of <math>\text{CO}_2</math></p> <p><math>n(\text{C}) = n(\text{CO}_2)</math></p> <p><math>PV = nRT \rightarrow n = \frac{PV}{RT}</math></p> <p><math>n(\text{CO}_2) = \frac{102.8 \times 0.7007}{8.315 \times 373}</math></p> <p><math>= 2.3218 \times 10^{-2} \text{ mol}</math></p> <p><math>n(\text{C}) = nM = 0.27885 \text{ g}</math></p>	<p>0.416 g of <math>\text{H}_2\text{O}</math></p> <p><math>n = \frac{m}{M} = \frac{0.416}{18.016} = 2.3091 \times 10^{-2} \text{ mol}</math></p>	<p><math>m(\text{O}) = 0.5096 - m(\text{C}) - m(\text{H})</math></p> <p><math>= 0.18423 \text{ g}</math></p> <p><math>n = \frac{m}{M} = \frac{0.18423}{16} = 1.1514 \times 10^{-2}</math></p>
<p><math>\frac{2.3218}{1.1514} = 2</math></p>		

EMPIRICAL FORMULA

EXAM QUESTION

# Empirical Formula Gravimetric Questions Answers

**Chao Zhang**



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