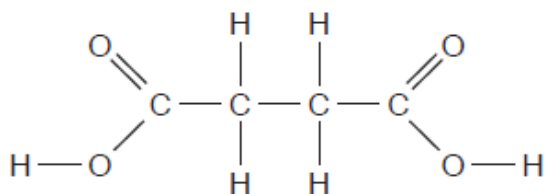


GCSE Chemistry A (Gateway Science)

J248/01 Chemistry A C1-C3 and C7 (Foundation Tier)

Question Set 15

1 Look at the diagram. It shows the displayed formula of succinic acid.

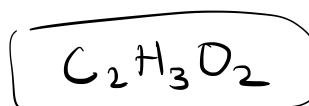
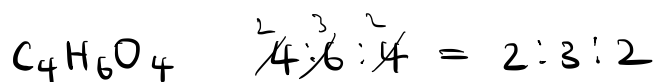


(a) Complete the table to show the number of atoms of each element in this displayed formula.

Element	Number of atoms
C	4
H	6
O	4

[2]

(b) What is the **empirical formula** of succinic acid?



[1]

(c) Succinic acid has a melting point of 184°C and a boiling point of 235°C.

What is the state of succinic acid at 25°C?

Explain your answer.

25°C is lower than melting (& boiling) point(s)
thus it would be in solid state (has not melted yet)

[2]

Total Marks for Question Set 15: 5

OCR

Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge