

90730



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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



For Supervisor's use only

Level 3 Science, 2009

90730 Describe selected organic compounds and their uses

Credits: Four

9.30 am Monday 30 November 2009

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should answer ALL the questions in this booklet.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–10 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

For Assessor's use only		Achievement Criteria			
Achievement		Achievement with Merit		Achievement with Excellence	
Describe selected organic compounds and their uses.	<input type="checkbox"/>	Explain selected organic compounds and their uses.	<input type="checkbox"/>	Discuss selected organic compounds and their uses.	<input type="checkbox"/>
Overall Level of Performance				<input type="checkbox"/>	

PINEAPPLE LUMPS

QUESTION TWO: FATS AND OILSAssessor's
use only

The chocolate coating of pineapple lumps includes cocoa powder and vegetable oil.

- (a) Describe the structure of fats and oils.

A labelled diagram may assist your answer.



- (b) Discuss the **chemical** reasons for the different effects of oils and fats on human health.

Include in your answer:

- effects of excess fats or oils
- degree of saturation
- cis and trans structures.

A labelled diagram may assist your answer.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

The chocolate coating contains a lipid that has C=C bonds. The chocolate coating goes soft when held.

- degree of saturation
- melting point
- shape of molecule.

A labelled diagram may assist your answer.

[illegible]

A shirt has a chocolate stain.

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In your answer, refer to:

- A labelled diagram may assist your answer.

[illegible]

**Extra paper for continuation of answers if required.
Clearly number the question.**

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Question
number

