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## Question 24 (4 marks)

In the margarine industry, alkenes are often hydrogenated to convert unsaturated oils into solid fats that have a greater proportion of saturated molecules.

(a) Using ethene as an example, write an equation for this reaction and state the type of reaction this represents.

This is a hydration reaction.

(b) Describe a test that could be used to confirm that all the ethene has been converted.

Mix in some more of the reactant. If there is still esthere present more product will form, of there is no esthere a remaining then you will have exass confort remaining.