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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.

C2HA + H2O -> C2H5OH . Ethene when added with H2O forms ethanoi in a hydration reaction (addition)

- (b) Describe a test that could be used to confirm that all the ethene has been converted.
 - Add Bromine water to the solution and take note of any changes to colour. If there is a change in colour, this means that the enhance was reacted and is prerefore Still present in the solution and has not converted.