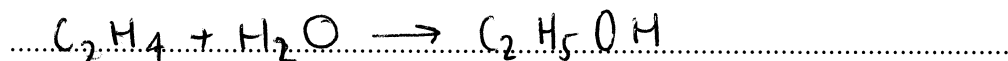


Question 24 (4 marks)

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. 2



..... this is an example of a hydration reaction.

- (b) Describe a test that could be used to confirm that all the ethene has been converted. 2

..... pour some ^{small amt (20ml)} of the product into a bowl

..... and light it. If it burns it all then its all been

..... converted to ethanol if not then there is still some

..... ethene