Question 22 (6 marks)

A student prepared the compound methyl propanoate in a school laboratory.

Give a common use for the class of compounds to which methyl propanoate (a) belongs.

1

in flancuring's or fer fumes.

(b) In the preparation of this compound a few drops of concentrated sulfuric acid were added to the starting materials. The mixture was then refluxed for a period of time.

2

Why was it necessary to reflux the mixture?

to increase vate at reaction and because it's ima condenser so a close system it would be dangerous if was an open system, and there is no boild up of dangerous volite ractants.

Name the TWO reactants used in preparing the methyl propanoate and draw their

3

the two reactants would be methanol enry bio bancic acid H H H

structural formulae.