2010 HSC Examination - Chemistry

Question 22 (6 marks)

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

(a)	Give a common use for the class of compounds to which methyl propanoate belongs.	
(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?	
(c)	Name the TWO reactants used in preparing the methyl propanoate and draw their structural formulae.	3