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Question 22 (6 marks)

(c)

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.	1
	methy) propanoale is an ester collection of the alkanoic excial and is used in cosmetics	
	and perfumes	

(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.

Why was it necessary to reflux the mixture?

Refluxing ensures that no volatile

gases awa escape into the atmosphere.

Refluxing also allows the reaction to be

carried out at higher temperatures

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

MRHADOL AND PROPANORISE ARE

ROCKED TO FORM ON ESTER.

H - C - C - C

H - C - C - C

MRHADOL

(CH3OH)

PROPANOIC ACID

(G3H-COOH)