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Question 22 (6 marks)	methons profuncic acts
A student prepared the comp	ound methyl propanoate in a school labor

atory.

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(a)	belongs.	ommon	use	tor	tne	class	OI	compounds	to v	wnich	methyl	propanoai	te

proparate would be in the esterification proces

(b) In the preparation of this compound a few drops of concentrated sulfuric acid 2 were added to the starting materials. The mixture was then refluxed for a period of time.

Why was it necessary to reflux the mixture?

When adding the concentrated sulfuic acid esters are formed. Reflyx allows an easier separation of the ester to the solution it is initially in

Name the TWO reactants used in preparing the methyl propanoate and draw their (¢) 3 structural formulae.

CHOH # # # C-C-C C-0-H 1 / 0-H