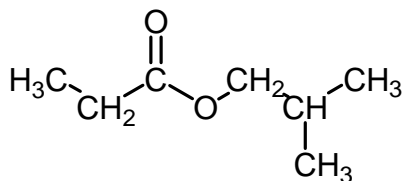


Grade 10 of 10 points

Points

- (1.5) 1. Give the IUPAC name of the following ester, and the IUPAC names of the acid and alcohol from which it is made. 0.5 each name.



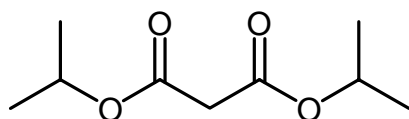
IUPAC Names

Ester: 2-methyl-1-propyl propanoate (isobutyl propanoate)

Acid: propanoic acid

Alcohol: 2-methyl-1-propanol

- (1.5) 2. Give the common name of the following ester, and the common names of the acid and alcohol from which it is made. 0.5 each name.



Common Names

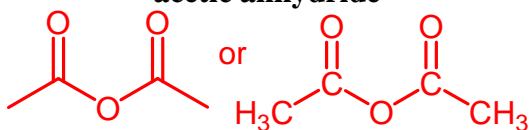
Ester: diisopropyl malonate

Acid: malonic acid

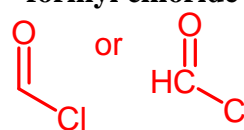
Alcohol: isopropyl alcohol

- (2) 3. Draw the structures of the following. 1 pt each structure

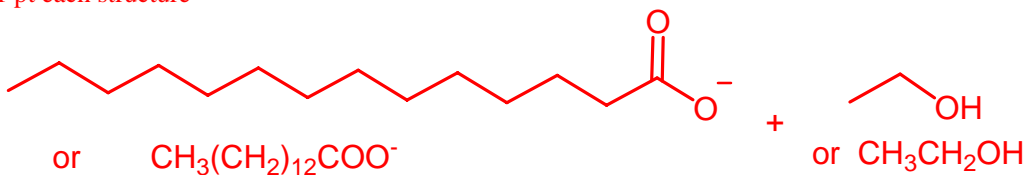
acetic anhydride



formyl chloride



- (2) 4. Draw the structures of the **saponification products** of ethyl tetradecanoate. 1 pt each structure



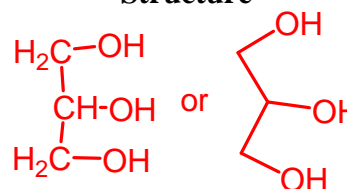
- (1.5) 5. Fats and oils are esters formed between fatty acids and what alcohol? Give both its **name** and its **structure**.

0.5 pt name, 1 pt structure

Name

glycerol

Structure



- (1.5) 6. Give the common name and draw the structure of **ethanamide**.

0.5 pt name, 1 pt structure

Common Name

acetamide

Structure

