

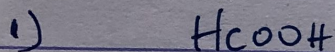
Ekwueme EBUKA Valentine

16/Eng02/014

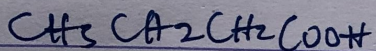
CHEM 102

Computer Engineering

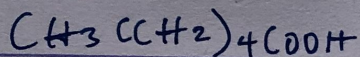
Carboxylic acid



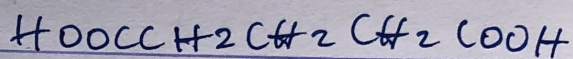
methanoic acid



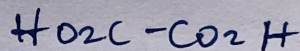
Butanoic acid



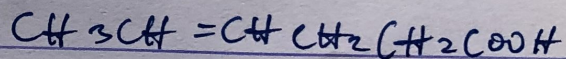
Hexanoic acid



Pentan-1,5-dioic acid



Ethan-1,2-dioic acid



Hex-4-enoic acid

2) i) Physical Properties

All simple aliphatic carboxylic acids up to C_{10} are liquids at room temperature, which most others are solids at room temperature. Although, hydrous carboxylic acid freezes to an ice-like solid below room temperature.

ii) Boiling Point:

their boiling points increase with increasing relative atomic mass.

iii) Solubility:

carboxylic acids with four or less carbon atoms are soluble in water because they form hydrogen bonds with water molecules, but their solubility decreases as molecular mass increases. All carboxylic acids are soluble in organic solvents.

