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ELECTRICAL WORK

(1) Methanoic acid

Pentan-1,5-dioic acid.

Butanoic acid.

Ethanediic acid.

Hexanoic acid.

Hex-4-eneoicacid.

(2) a) Physical appearance: All simple aliphatic carboxylic acids upto C₁₀ are liquid at room temperature. Most other carboxylic acid are solids at room temperature although anhydrous carboxylic acid (Acetic acid) also known as glacial ethanoic acid freezes an ice-like solid below room temperature.

ii) Boiling point: This increases with increasing relative molecular masses.

Aromatic carboxylic acids are crystalline solids and have higher melting points than their aliphatic counter-parts of comparable relative mass.

iii) Solubility: Lower molecular mass carboxylic acids with up to four carbon atoms in their molecules are soluble in water this largely due to their ability to form hydrogen bonds with water molecules.

Petroleum

(3) a) C₅ - C₇ O₂/high temperature and pressure C₅ - C₇ carboxylic acid

Ethanol

b) HC≡CH dil H₂SO₄ / HgSO₄ CH₃CHO O₂ / [H⁺ - (CO)₂Mn] CH₃CO₂

