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Electrical engineering

Organic Compound Importance

Organic compounds are in the production of
food: Carbohydrates, Sugars etc
Clothes: Nylon etc
Fuels: Natural gas, Petrol etc
Medicines: Penicillin etc
Explosives: Nitroglycerine, Nitrocellulose etc
Insecticides: DDT etc
Dyes: Indigo, Muzirind etc
Household articles: Cosmetics, Perfumes etc

Homocyclic compounds: are compounds which
atoms belonging to the same element part
to the ring of a cyclic compound

hetero-cyclic compounds: are compounds which
atoms of both carbon and any other element

Organic Compound A belongs to \rightarrow Aldehyde family
 Organic compound B belongs to \rightarrow ketone family

1,4 Dinitrophenylhydrazine Test is employed for
 identification of aldehydes and ketones

- Halide \rightarrow $\frac{P}{H}$, -Cl -Br
- Esters \rightarrow $\frac{O}{\parallel}$ -C-O
- Ketones \rightarrow $\frac{O}{\parallel}$ -C-
- Alcohols \rightarrow -OH
- Aldehydes \rightarrow -CHO
- Carboxylic acid \rightarrow -COOH
- Ethers \rightarrow -OR

- 1-bromo-1-propene (Alkyl bromide) \rightarrow cyclohexyl bromide
- ethyl ethanoate \rightarrow ethyl propanoate
- propan-2-one \rightarrow pentan-3-one
- butanal, cyclohexanal
- ethanol, butanol
- methanoic acid, 2-methyl butanoic acid
- methyl ethyl ether, 2-methyl propanoic acid, diphenyl ether

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homocyclic compounds : are compounds which consist of atoms belonging to the same element present in the ring of a cyclic compound.

heterocyclic compounds : are compounds which consist of one or both carbon and any other element present in the ring of a cyclic compound.

Retention factor (R_f) = $\frac{\text{Distance moved by solute}}{\text{Distance moved by solvent}}$

$$(2.4 \text{ cm}) / (R_f) = \frac{2.4 \text{ cm}}{12.2 \text{ cm}} = 0.19672$$

$$(5.6 \text{ cm}) / (R_f) = \frac{5.6 \text{ cm}}{12.2 \text{ cm}} = 0.45902$$

$$(8.9 \text{ cm}) / (R_f) = \frac{8.9 \text{ cm}}{12.2 \text{ cm}} = 0.72951$$