
18BP023 PHARMACEUTICAL ORGANIC CHEMISTRY-I LABORATORY

LABORATORY EXPERIMENTS

PRACTICAL

4 HOURS / WEEK

- I. Systematic qualitative analysis of unknown organic compounds like
1. Preliminary test: Color, odor, aliphatic/aromatic compounds, saturation and unsaturation, etc.
 2. Detection of elements like Nitrogen, Sulphur and Halogen by Lassaigne's test
 3. Solubility test.
 4. Functional group test like Phenols, Amides/ Urea, Carbohydrates, Amines, Carboxylic acids, Aldehyde and Ketone, Alcohols, Esters, Aromatic and Halogenated Hydrocarbons, Nitro compounds and Anilines.
 5. Melting point/Boiling point of organic compounds
 6. Identification of the unknown compound from the literature using melting point/ boiling point.
 7. Preparation of the derivatives and confirmation of the unknown compound by melting point / boiling point.
 8. Minimum 5 unknown organic compounds to be analysed systematically.
 9. Preparation of suitable solid derivatives from organic compounds.
 10. Construction of molecular models.

RECOMMENDED BOOKS (LATEST EDITIONS)

1. Organic Chemistry by Morrison and Boyd
2. Organic Chemistry by I.L. Finer ,Volume-I
3. Textbook of Organic Chemistry by B.S. Bah & Arum Bah.
4. Organic Chemistry by P.L.Soni
5. Practical Organic Chemistry by Mann and Saunders.
6. Vogel's text book of Practical Organic Chemistry
7. Advanced Practical organic chemistry by N.K.Vishnoi.
8. Introduction to Organic Laboratory techniques by Pavia, Lamp man and Kris.
9. Reaction and reaction mechanism by Ahluwalia/ Catwalk.

