# PRACTICAL ORGANIC CHEMISTRY

# PURIFICATION METHODS DISTILLATION TECHNIQUES

#### Tuper: (A) SIMPLE DISTILLATION (B) FRACTIONAL Condittons DISTILLATION (ii) When liquid sample has non-When hip. volatile impurities difference is 10%. tall. When boiling point, difference Examples is 30 K or more. (ii) Crude oil in Examples meteoderico. (ii) Mixture of chloroform Service Street, or (BP = 334K) and Andine IIII Acetone (329 K) (BP - 45790)and Methyl Mischane of Ether alcohol (XXXXX) (b.p. - 308K) & Toluene (b.p. - 384K) (iii) Hexane (342)0; and Toursiers of RRANCI (C) DISTILLATION UNDER REDUCED PRESSURE (Vectores distillation) When liquid boils at higher temperature and it may decompose before b.p. is attained. Di Concentration of sugar juice Example (iii) Recovery of glycerol from spent lye. Dust Cidwoorroit (D) STEAM DISTILLATION $P = P_1 + P_2$ When the substance is Vapour Vapour Vapour imministible with water and priesture priesture pressure steam voletile. 1946 and recollect Example : **Oversion** 60 Andline is separated Buttered from water (iiii) Notro Hermene (in) Turpentine oil (iv) Bromo Benzene (v) Naghthalene (wt) a-Nitrophenol

# LASSAIGNES METHOD (detection of elements)

Element	Sedium	Confirmed test
Nitrogen	Na + C - N △↓ NaCN	(NaCN+FeSO,+NaOH)  bed and seed  *FeCi,+conc. HCl -+Fe,FelCNi,j,  frames the other
Sulphur	2Ne + 5 ∆↓ Ne,S	III Na_S = Na_Fe(CN)_NO() Na_Fe(CN)_NOS  Alexa reference  UP Na_S-CH_COOH = CH_COOH,Pb Alexa ref. Place
Halogen	Na + X A L NaX	NaX = HNO, - AgNO, 0 White ppt soluble in ag NH, confirms Cl. in Yellow ppt partially soluble in aq NH, confirms Sc. in Yellow ppt insoluble in aq. NH, confirms I.
Nitrogen and sulphur together	Na+C+N+S A NaCNS	As in test for nitrogen, instead of green or hise colour, blood red colouration confirms presence of N and S both.

ESTIMATION OF NITROGEN

#### *QUANTITATIVE ANALYSIS OF ORGANIC COMPOUNDS*

# Estimation of carbon and hydrogen - Leebig's method

$$C_sH_s + O_{2s} \longrightarrow xCO_s + y/2 H_sO$$
  
 $\%$  of  $C = \frac{12}{44} \times \frac{\text{wt. of } CO_s}{\text{wt. of org. compd}} \times 100$   
 $\%$  of  $H = \frac{2}{18} \times \frac{\text{wt. of } H_sO}{\text{wt. of org. compd}} \times 100$ 

Note: This method is suitable for estimation if organic compound contains. C and H only. In case if other elements e.g., N, S, halogens are also present the organic compound will also give their resides which is being absorbed in NO94 and will increase the percentage of carbon and therefore following modification should be made.

#### Duma's method:

The nitrogen containing organic compound yields nitrogen gas on heating it with copper (II) oxide in the presence of CO<sub>2</sub> gas. The mixture of gases is collected over potassium hydroxide solution in which CO<sub>2</sub> is absorbed and volume of nitrogen gas is defermined.

% of N = 
$$\frac{28}{22400}$$
 =  $\begin{pmatrix} Vol. of N_s \\ collected \\ st N.T.P. \\ Wt. of organic organical \\ organic description  $V$$ 

Note: This method can be used to estimate nitrogen in all types of organic compounds.

#### Kjeldahl's method:

In this method nitrogen containing compound is heated with conc. H<sub>i</sub>SO<sub>4</sub> in presence of copper sulphate to convert nitrogen into ammonium sulphate which is decomposed with excess of alkali to liberate ammonia. The ammonia evolved is

Moste: This method is simpler and more convenient and is mainly used for finding out the presentage of netrogen in food stuffs, soil, fertilities and various agricultural products. This method carevot be used for compound having nitro groups, see group (-N × Nand nitrogen in the ring (pyridine, quincile etc.) Since nitrogen in these compounds is not quantitatively gonverted in to ammonium sulphate.

# **Msc Organic Chemistry Practical Manual**

# **KUNDAN KUMAR**

# **Msc Organic Chemistry Practical Manual:**

ORGANIC MEDICINAL CHEMISTRY PRACTICAL MANUAL FOR PHARMACY AND SCIENCE STUDENTS Anees Ahmad Siddigui, The manual illustrates the concept of basic techniques in practical organic medicinal chemistry It aims to meet the requirements of B Pharmacy students under the new syllabus prescribed by Pharmacy Council of India It will also be useful to BSc BSc Hons and MSc medicinal chemistry students A Systematic Course of Practical Organic Chemistry **Laboratory Manual of Organic Chemistry** Raj K. Bansal, 2009 About the Book The manual Lionel Guy Radcliffe.1905 has been thoroughly revised several new experiments and tests have been added while some redundant material has been deleted Chapter 2 has been completely rewritten An obvious change of this edition constitutes the splitting of Chapter 7 into two separate Chapters Tables on derivatives of organic compounds have been expended Also included are 20 estimations 75 preparations and isolation experiments and approximately 135 in text guestions related to the experiments The approximation of modern spectroscopic techniques to structure determination have been discussed in the last Chapter This book is designed both for undergraduate and postgraduate level students with its enhanced and comprehensive presentation This is an indispensable book for organic chemistry practicals About the Author Dr Raj K Bansal received his M S from the University of California Davis Calif U S A and Ph D from Calgary University Calgary Alberta Canada He was a postdoctoral fellow at the National Research Council N R C of Canada in Halifax N S Canada followed by a Research Associateship at the Mellon Institute of Science Carnegie Mellon University Pittsburgh Pa U S A Dr Bansal has published a number of research papers in various foreign and Indian scientific journals He is the author of six books on chemistry including this work A Textbook of Organic Chemistry 5th ed 2007 Organic Chemistry Problems and Solutions 2nd edn 2006 and Heterocyclic Chemistry 4th edn 2005 One of his books Synthetic Approaches in Organic Chemistry has been reprinted by Jones and Bartlett Publishers Sudbury Massachusetts U S A Dr Bansal was a former Professor Department of Chemistry Indian Institute Classified Guide to Technical and Commercial Books ,1904 of Technology Delhi Hauz Khas New Delhi A Manual of Machine Drawing and Design David Allan Low, Alfred William Bevis, 1898 A Text-book of Physics William Watson, 1904 Laboratory Studies for Brewing Students Adrian John Brown, 1904 The Steam Turbine Robert Morrison The Structure and Classification of Birds Frank Evers Beddard, 1898 Machine Tools and Neilson, 1902 Workshop Practice for Engineering Students and Apprentices Alfred Parr, 1905 Elementary treatise on physics, experimental and applied, tr. and ed. by E. Atkinson Adolphe Ganot, 1898 A Text-book on Ceramic Calculations Calculations in Hydraulic Engineering: Fluid pressure, and the calculations of its effects in Willie Tackson.1904 engineering structures Thomas Claxton Fidler, 1898 Lab Sparks: Amazing Physics - Complete Edition for Classes 6-12: The Ultimate Practical Manual | You Can See, Feel & Explore! | 70+ Experiments from Kitchen Science to Electromagnetism | Aligned with NCERT, CBSE & NEP 2020 KUNDAN KUMAR, 2025-10-13 The Ultimate Science

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