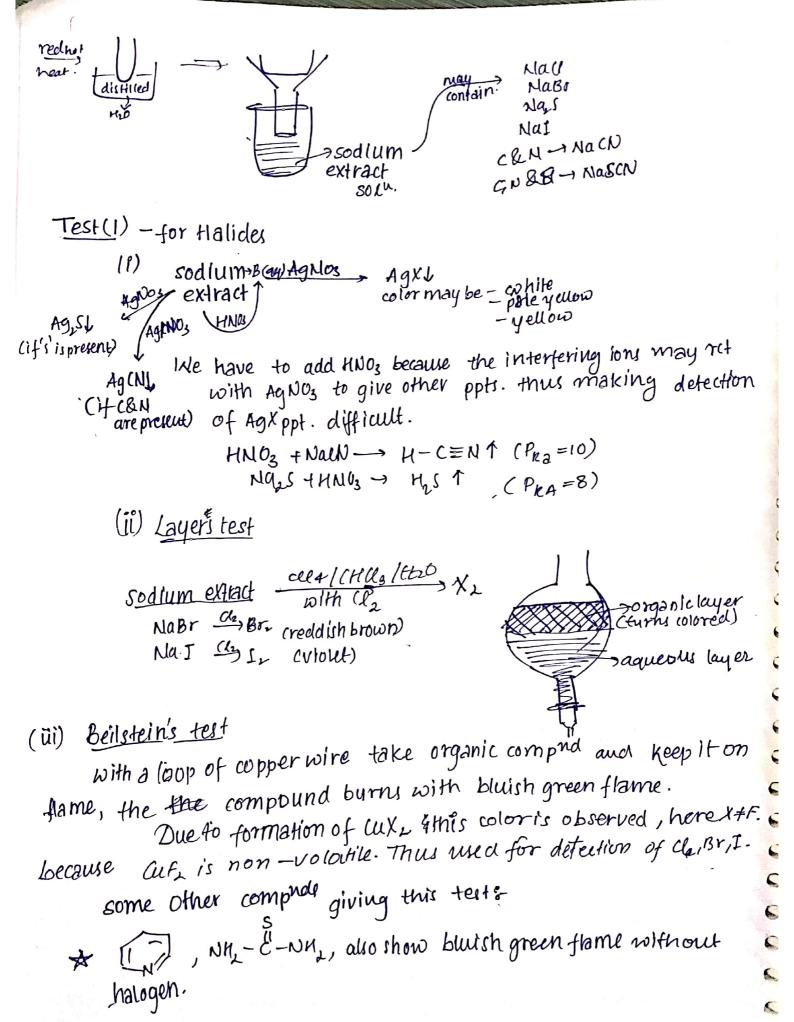


Used for preparation of ion from corresponding covalent.

procedure :-

- Take Egnition tube with given compand Na metal
 - Heat it under frame.
 - Then coon the test tube and fill it with organic compand Then heat it upto red hot condition.



Test(2) - on all war	
Test (2) - for Mitrogen Nacn,	
Solum extract feson Nay [FE CCN) o Tacidied	
availed [ast] Reda]	
-111 - 11	
(i) NH3, NaNO3, NH2-NH2, ANH2-OH, etc. FEL [FE CW)6]3	
doesn't give prussian blue due to abse- prussian blue.	
na of carbon.	_
(ii) k_{11} $\sim NO_{2}$ $I^{NO_{2}}$	
1.0 10	
diazontum Azo dyes prusiun blue	
61 CSM b	
because on heating they decompose to give Net avoiding	
formation of CNP ion and thereby don't give this test.	
(iv) It amone compad pocess on made their consolion of	
(iv) If organic compand possess c, N ands, then formation of	
xlascal taker place, it doesn't give proussian blue color.	
(V) If test is carried with excess of Na, then iforganic compade compade compade compade compade of Nand's, shows characteristic test for bother and s.	
contains both Nand's, shows characteristic test for bother and s.	
Muscon Macon Nacon	
Nas.	
Test (3) — for sulphur	
(i) sodium extract Pho(AC), PhS 1, black	
Soln black	
(ii) sodium extract sodium nitro:	
Sul ~ muside. Hit due to compare of sodium	1
(ii) Sodium extra(t sodium nitro, ppt. Sodium extr	U.
Test(4) - for both N and 's'. [i.e for (sex)]	
Sodium extract Fells Fells [Fe (SCN)]2+	
ca/n	NATURE OF THE PARTY OF THE PART
Climited Na) Blood red coloration.	

Test-for 'p' Organic compand Na. 020 Ammunician) (MOCHANGENY) Mg (NH4) 904-Mgz Pz Oz Magnesium pyro phophate -Test(6) - for 'c' b'H' Leibiq's method organic compad $\frac{\pi}{\Delta}$ \rightarrow $co_{2} + H_{2}O \frac{\text{and with draw}}{\text{cutor}} cutor - 5H_{2}O$ (Une color) Lime water Test(+) - for 'd No method is available. III Quantitative Analysis (1) C' and 'H'
Leibig's Hethod organic compounds _______ CO2 + 1/20 Anhyd .calls (Wgm) $\frac{1}{18} \times \frac{1}{18} \times \frac{1}{100} \times 100$ (wagens)

1/6 = 12 × W1 × 100

2) Calculation of N' KJELDAHL'S METHOD. つしっしっしっ org. compd. HUSON (NH4),504 Base NH3 (Wgms) Cwith known concentration (with un known (NH++H+) n, moles of ext no morsofor conceutration) Y. N = (1-n2) X 14 X LVD - This method is not applicable for following methods. (i) compound containing Nitro No, gno. (ii) IFL compacts containing azo grps (-N=N-). (iii) Pyridine containing rings. * Duma's Ofethod org. compred. Suo N. + Co. + H20 passed through N. + Co. + H20 through copper gauge · N2 + CO2 + H2O KOK , N2 + H2O + K2O3 Louat pure N2. 1/N= PY x 28 x100 (3) for halogen Carlus Gethod org comprol. 1 con. HNO3, Agx (Wign) $7. U = \frac{35.5}{143.5} \times \frac{W_1}{W} \times 100$ $\times I = \frac{124}{235} \times \frac{W_1}{W} \times 100$ $-9. Br = \frac{80}{188} \times \frac{W}{W} \times 100$

(4) for 's' Carius Wethod N4,62 org. comd. HNO, 14504 H2SO, BACK, Baso, 6 (Wymi) 1.5 = 32 × 100 × 100. (5) for 'p' org, comy 4NO3, 113 PO4 (NH4), MOO3 (NH4), PO4.12 MOO3 (wgms) (49 gms) Ing mixture Myrhay wigm. 1/2 P= 31 x 100 x 100 = 62 X W2 X100 purification methods of organic-compads

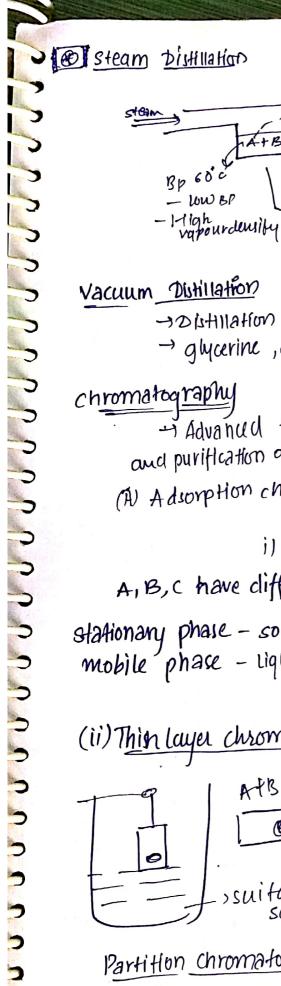
(1) <u>Sublimation</u> -> camphor, benzoic acld, napthallne, authracene, 12, NHall, Hgla, etc.

(2) Crystallisation

- solubility decreams as temp. decreams.
- -) The sold thed left over after crysta wisation is colled mother liquor.
- (3) Distillation:

- used for liquids.

- If huge diff. is there in their B.p = 40°c conduct distillar Hon. And if diff. in B.p is < 40°C conduct fractional diffi-Maflon.



NOL Inter InTRA High BP LOWBP. Insoluble in H20a). but somble in King.

- -Distillation under reduced notes pressure.
- → glycerine, cane sugar purification.

Bp. 140°C

-HighBP.

Low vapour

dewity

chromatography

i Advanud technique best method for separation of mixture Solvent (Furth)

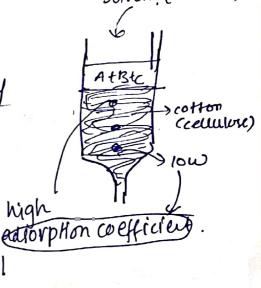
and purification of mixture.

(A) Adsorption chromatography:

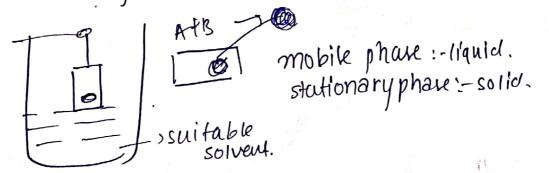
i) column chromatography

A, B, c have diff. adsorption cofficent.

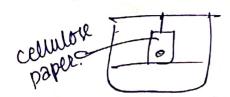
stationary phase - solid mobile phase - liquid.



(ii) Thin layer chromatography



Partition Chromatography



mobile phase Stationary phase :- (lia)