Na BHy LiAlty Alchydes, bytone > Alcahar cattack - (-) -NH-CH3 -NH2 -NH-CH3 H./Ni on 12/Pd (Reduction) Aldehyde, keytone, Cyonide ROH 2°-07 -CHNH,

A'dehyde -> 2° ROH 3 dechal RMgX (buriegrand) 02/HE (umene -> phonal Alcohot Alcoxide (sedium) phenal -> phenovide (sodium) (M, - C-0-CH, or (42-l-cl (i) 0-auglation markend (ii) N-auglation - s snilne N- aylection m> dmme (con.) H, so y / Make 443k (hot) 1° Alcohols - - theres Alkes (com.) 4,504 /410K (cold) Alcohols -> ethers (85%) 43 POy 1440K (hot) DT 2° Alcohol -> Alkene (20%) MzPOy /358K (cold) A & 30 Alcohol -> Alkene (- K) Alecholic KOH (F. eliminaton) Alkythalide -> Alker (no, /kmnoy or K, Croio 7 (HD))(i)-1° Alcahal -> carboryla (ii) 2° Alcohal -> heytone (1) - FI Alcohol -> Alderya Cu /573K (ii) - 20 Al cohal -> keytone Cordigue) (iii) --- 3° Alcohol -> Alken Dilute HNO3 Co Mononitration of mon

CO/HCl/AlCl, (Anhy.) (trattermon's) Denjene -> henjaldehjele (CH3), Cd (waeker's) Sid chloriele -> keytone RMgx/H36⁽¹⁾ (yen'eles -> keytone (arbonyl -> cyanehydrin. Addition of arthor on to Alderyde carloonyl - con theylone.

Carloonyl - hydrazone

Garloonyl - hydrazone

Home

Carloonyl - phenyl hydrazone

Inamel - 24 din tronhenyl Na 4503 (test) HINOH HN-NHZ HEAD H_N=NHPh 2,4 DNP (Breaddy's reagent) carleonyl-> 2,4 din trashengl carleonyl -> simicarbajone H, N = NH-C-CH,
R-OH/HCL (ii) Aldehyde -> hemiacetal keylone -> acetal HO-CH-CH-ON/HCL (ethylene glycol) Zn-Ma/MCC (clemenson) couldonyl -> Alhone (2m Analgum) (Pan-remitmexxenis) M. N-NU, /KON (well kither) (and sentine) (kin)

(MMnOy /PHO) K, C n, O7 Kytone -> mix of carbo

+ 1,504/HNO, (ordising)

(and sing)

(and sing) (tallers test) (Fehlings test) (NH3) OH (OH)2 Agl CUD-7.Cu)

Bo. /120 (ail for mono hatogenator) I'm nitration of phenal Bo. /120 bramination (white (i) Trong bramination of phend Bay 2/652 (ii) - mono teromination of sidne NaOH/CO_ Knener - Recycle come (MCl. /NaOH (Peimer Teimam) Thenol -> 0- salicylable- chyde Zn dust Na Cn, 07/4,504/air Phenol-Bergene Phenol - Renjaguimone 0=(=)=0 Invertere (200-300 atm) (573/67316) COHI-7 CHON Surose -> blues + button Zymase

(i)— Crlucose => ethonal

(ii)— hourdose => ethonal

HI (mailer reducing agent) (in Red P) ethon => alkone

(master) Thydrogen adide im redphosphorus) -> Alkyl indide Pyridi num chloro checomale (i) 1º Alcohol -> Aldehyde Pd/Baso, /HD (Rosentimund) Sidchloride -> Alderyde Sn(1, /HCl /4,00 (stephen) Cycmides -> Alderydes Al H(i-Ru), /H, O (DiBAL-H) Cycmides -> Alderydes Cn O, Cl, (H, O (Etward) trolune -> Alderyde (no; ((n, co)) o (similardo Etund Tolume - Rengaldehyde chlorination ~ Alkylosoups of beopenelalhone (l. /hr (orde Train from)

CILIZACIO MO MI (Kucas) Alcohol - Atkyl Holide claste of Fells El group my Burreno PCLs on P. Brs on 13, (say front son) Alcohol - Ally I halide sock of the Alcohol -> Alkyl chlorida Couloacylaid - Aid Unlande MNB/HC (0=5°C) (Digotization) PH-NH, --- PHN,CL R-NH Alkene CuCla Cabras CuIn KJ (Sondmujors) & PhIN_-CI - diagonium tulide H, O asper (Similar) PhN2-cl -> Prenol Hypoy (similar) MAN - CL - Benjane HBF4 of Na BF4 PhN3-Cl -Th-F Ag F or Hg 5 on SbF3 or CoF2 (Sword) Ally ! label -> Ally ! la NaOH 7623/443/368)K (Dove's) Chloroburgere - Thereal braffe Ang ils IFe Cla Framination of beggers Chlorinational burene CH_ 5- (1/Al(1, (Friedel Alkylation) benure -> toluene CH- 5-(1/Al(1) (Friedel Acylation) Benure -> Acyl Burgere CHOCH-CHIMOTRAMAICH phonal organizary O-Acylphonal should Chyl-ci/Naon/O beson (com) Alkene -alcohol 1,0/4,104 (Addution of evater) Aq. KOH Alkyl hadide - Stohal (Organization of Ather -ruleshol (Ant BHS / 4,0, 10HG (Antima

