A Oxidation of side chain in azenes + heat and settux with alkaline KMnOn or acclified K2(1207 H+ -CHJCH3 + [0] -> (C - COOH Benzoic acid -OH (ag) = (ag) + H⁺ (ag) * Chilorde A (0) $-0^{1}Na^{+} + HaO$ OH + NAOH -> -O'Nat + Ha 0H +2Na ->2 * 5 -OH + BB YZ(12) > A m Notesale th OH OL Conc. Hards Non Pre H+ NOS NOS NOS Ht D+H adding Cl to R makes strayer acid

A CH3COOH + PCIS -> CH3COCI + POCI3 + HCP * CH3CH2COCI + H2O -> CH3CH2CQH + HCl + Chloro alkanes require strong alkali + acylchlorde can be hydrolysed with H2O acyl chloride > chloro alkane > ary I chloride + CH3CCC + R-OH -> CH3CCC + HCP + acyl chlorides react with phenol in presenced by + Nacl * A Iodotom test for CH3-CH- and CH3-C-A + & yellow ppt. is a positive sign + Iz with NaOH, heat $\begin{array}{c|ccccc} \rho & I_{2_{0}}NcOH & \rho & NcOH_{CM} & \rho \\ R - C - CH_{3} \longrightarrow R - C - CI_{3} \xrightarrow{\text{hydromysin}} R - C - O'Na^{\dagger} + CHI_{3} \end{array}$ As preparing phenylamine + Sn + conc. HCl, heat $\rangle - NO_2 + 6[H] \longrightarrow (O) - NH_2 + 2H_2O$ + steam distillation to separate phenylamine