









3) Clemenson Reduction

cn-c" + 260+ + 400 - --> CM3-C + CW20 + 2420 Acetic Acid redppt Acetaldehyde Fehling's sol"

Tollen's reagent

(29) Schiff's reagent text:

Aldehyde + schiff's test - pink or magenta coloux

Note: Fehling solution test, Token's reagent test & schiff's reagent test are not given by ketones & hence used to distinguish between aldehydes of ketones. (2001/161) 2000/12/19 page

By oxidation of methyl arene using Croz

Croq is used to protect Benzaldehyde from forther oxidation.

(9) sy side chain chlorination of tolvene:

И-С-И > СИ-С-СИ > SUE С-ОН > ВК-С-ОН

3) Clemenson Reduction test "los grilled (3)
$R-\ddot{U}-H+4[H]$ $Zn-Hg$, $R-CH_2+U_2O$ $\begin{cases} R-dWction \\ Of Aldeh \\ CH_3-\ddot{U}-CH_3+4[H] \\ Conc.HCI \end{cases}$ $CH_3-CH_2-CH_3+U_2O$ $\begin{cases} Redwction \\ Of Aldeh \\ CH_3-CH_3-CH_3-CH_3-CH_3-CH_3-CH_3-CH_3-$
(3) Wolf-Kishnes Reduction $ c = 0 + N n_2 + N n_2 + N n_2 + N n_3 + N n_4 +$
(32) Red Phosphosous (Rad P/NI) -> Nesg stoons Reducing agent (Cu ₈ - C - M Red P/NI) -> Cu ₃ - CM ₃ (Cu ₈ - C - Cu ₈ Red P/NI -> Cu ₃ - Cu ₋ Cu ₃
Rate of Estexification & I stessic Mindesance OAlcohols: Ch3 Ch3 Ch3 Ch3 Ch3 Ch3 Ch3 Ch

from Carboxylic Acids

M-C-H

D By Dry Distillation of calcium salts of Carboxylic acids.

33 FORMATION of geminal DINALides:

ey_ - 2 - On,

$$2) \quad cu_3 - \ddot{c} - cu_3 + PCI_5 \longrightarrow cu_3 - \dot{c} - cu_3 + Pod_3$$