2 (1 Dinit - 1 - 1)
2,4-Dinitrophenylhydrazine:
Oldel .
Aldehyde ->yellow
VOTO-0
recone -> orange last
Soding Ped ppt
Sodium Bisulphite:
- suprince:
·Aldehyde + Small methyl retones
retones
- A
- who
Tollen's test: white ppt
= 3 rests
(note and
Sodium Aliphatic + Aromatio Wiles
Nit-
Sodium *Aliphatic + Aromatio Widehyde *Silver otosi (fig) *Ketone *Fronic 10 Qd also give this test orange certificate alkyne > white not.
· Ketone · From (290 8)
iow thomica to go
"Wine red this test
orange red ppt (No mirror)
THE LOCAL COLOR OF THE PROPERTY OF THE PROPERT
Tehn:
Fehling test: (Tartrate)
(druate)
· Miphatic aldehyde
in mark alaehyde
Stick Pol - /:
Benedict tous (Red Ppt (cu,o)
Benedict tect.
Benedict test: (citrate)
· Aliphatic aldehyde
Bank a section Ade
Brick Red PPE (cu.o)
manufacturate fundament

REPARATIONS: 21/2/2021 REACTIONS R-CH=CH2+H2 Ni 200-3002 R-Mg-X+HView from Notesale.co.uk This too Shall O_2 $Co_2 + H_2O$ Combustion Flame +891Ki/m O2+ Flame Oxidation [0], (4) 200 + H20+C 4500 R-OH (0). (U) R-X+2Na+R-X Noth KOH Oxidation ALKANES CATALIZE -C-H+4(H) - 2000 1 -C-(H3+4(H) Zn-H9 4000-4500 - "- - NaOH " Cao HONO3 -CHBNO2+ H20 hy > R-Cl or R-X CH, COOH + 6HI. P

portant .	unctional Croups:
C=NH2 - C-NII	Hydrazone >C=N-NH Imino
-SH	>C-NH
C=N-OH	Vinyl CHz=CH-
Bengyl	Benzol Rotesale.co.uk
Benzo Benzo	Benzol co.uk Notesale.co.uk Notesale.co.uk Benzel Benzel
6	
Acetal COR	Acid anhydride
Phenyl/Aryl	Acryl C H2C = CH

		The state of the s		
Yourabout-Wan	DIV aux	Alkene	Alkyne	Alkyl halides
General characteris General	· Cn 2n+2 · Tatvahedval · Non planney · 4p³ hybridization	Trisonale CO.	· Unsaturated HCs. C=C(triple bond). CnH2n-2 · Linear shape. · Planner. · Sp hybridization	· R-X · halogon (Funtional grp) · CnH2n+iX · Tetrahedral · Non-planner · Sp3 hybridization
Bond length	Bondaugle 1975	8 0 1.34 ñ (C=c)	.Bond angle 120°	1.54A(C-C).
Preparation	Hydropage of	· Dehydration of Alcohal: · catalyst - H2SO4. · Temp - 170°C	· Dehydronalogenation ° b Vicinal Dihabides · KOHHNANH2 (Solution) • Temp - 33°C	· Halogenation of Alkane. · Temp-4000 · Hydrohalogenation of Alkene. · From Alcohal.
	· Hydrolysin of Chrignard reagened. R-MgX+H20	-Dehydrohalogenation °() Alkyl halides KOH (Adcohlic Gol).	Dehalogenation of Tetrahalides Atcohalic Solution - Zine dust.	4 haloger acid, ROH+HX 4 Phosphorus habides 3R-OH+PC13 4 Thionyl chlorides R-OH+SOCL2
Reactivity	· Signa bond.	Reactivity Polarity Reactivity 1/13 length To bond	Highly reactive . Toond less reactive than Alkene due to 9 charac	Move Reactive RX (hishly Polar). 140 vder of reactivity RI>R-BY>R-CL>R-F
Reactions	Substitution Reactions. Halogenation R-H+X2 ~ R-X+HX Invitation (Free radical) Propagation (Allocking) Termination (Removal) Oxidation Reaction Catalyst > Cu Temp > 200-300°C Product > Alcohal.	Hydrogenation Hydrogenation Hydraction Catalyst-H2504 Temp-100°C Halogenation Halohydration(U-OH) Product-Halohydrins Eplozidation HAG, Temp-3300°C	Addition Reactions Hydrogenation Reduction by Na Metal 113. NH3. Product - Sedium Acetyli Hydrohalogenation Hydrohalogenation HzSoy, HzSoy, Temp. 80 Product - Carbenyl Comp. Nalogenation Ozonolysis - O3.	Nucleophilic substitution reactions SN' - SN2 Int Order - 2nd Order Polar Solvent. Non polar Two step . Single Step. Orientation Changes . Changes
THE PARTY OF		· Ozonoly SN (2n+T=100C)	Gozonicle-Carbanyl Comi	C C I C (same)