

PROPERTIES AND USES OF ^{1.}

"BENZALDEHYDE"

DEGREE-II (HONS.) ,04/11/2020

(Revision Notes)

PHYSICAL PROPERTIES

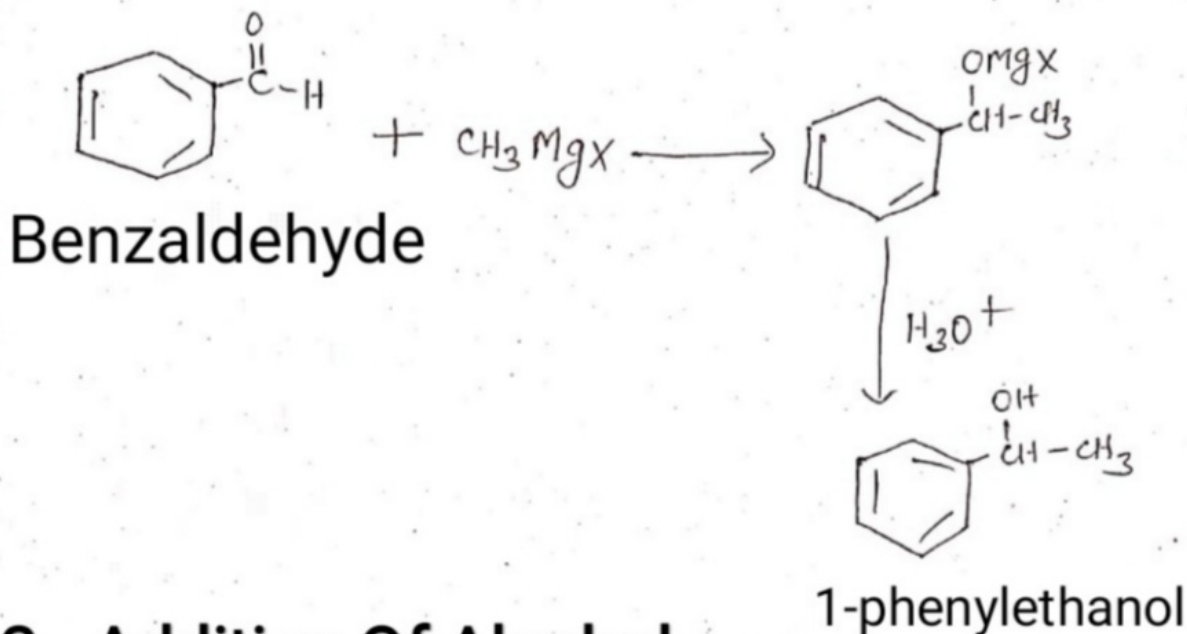
- * Benzaldehyde is a colourless liquid, b.p = 179°C
- * It has a pleasant almond like odour.
- * Soluble in ethanol and diethyl ether.
- * It is steam volatile.

CHEMICAL PROPERTIES

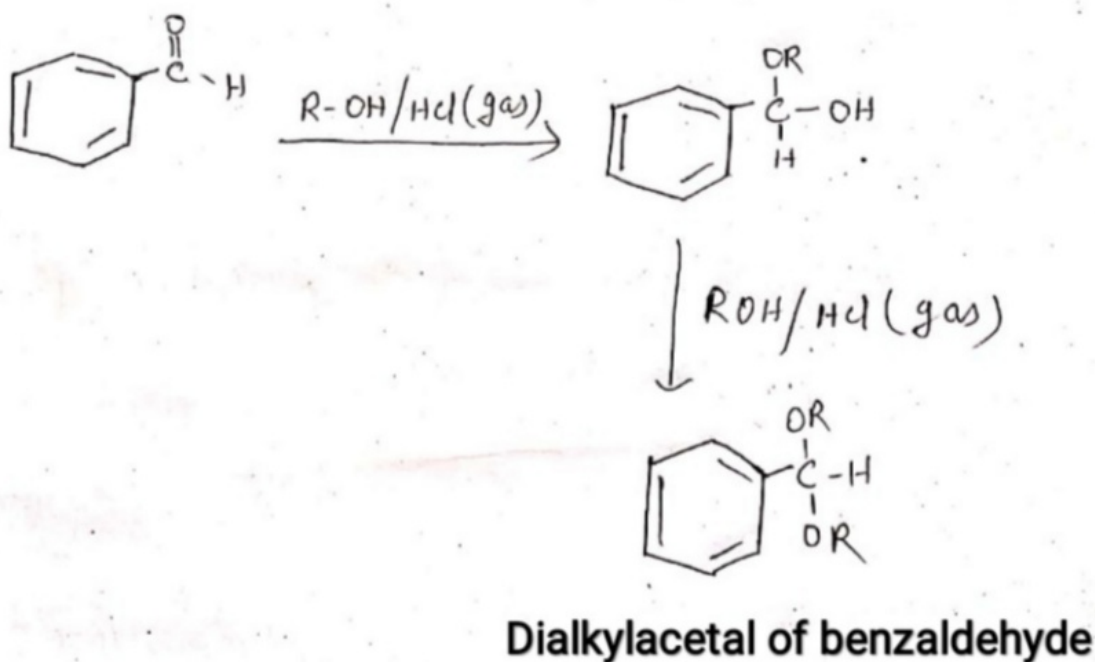
2.

Benzaldehyde undergoes Nucleophilic Addition Reaction

1. Addition of Grignard Reagents

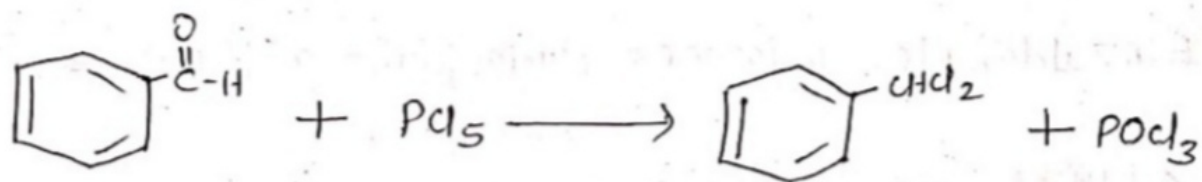


2. Addition Of Alcohol



3. Reaction with PCl₅

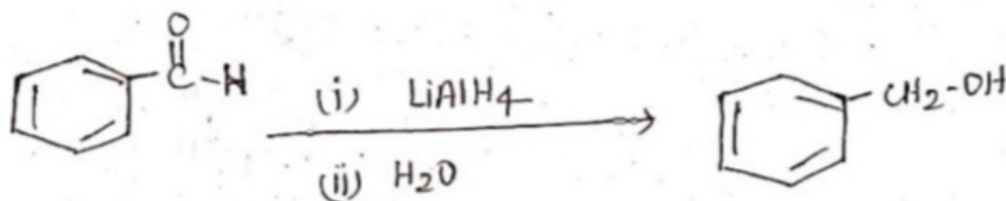
3.



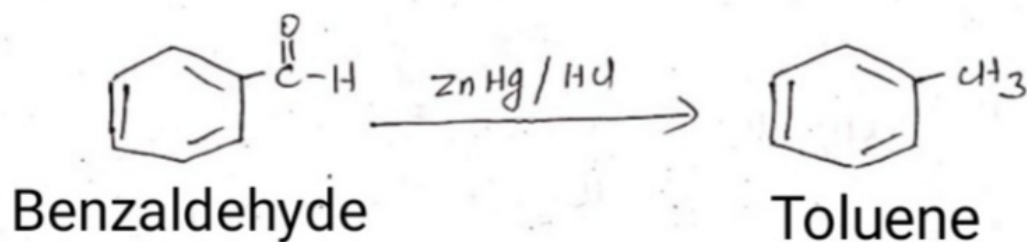
4. Reduction

Different products are obtained with different reagents.

a. With LiAlH₄, Benzyl alcohol is formed.



b. Clemmensen Reduction



USES OF BENZALDEHYDE

Benzaldehyde is used :-

1. as flavouring.
2. in perfumes.
3. in the manufacture of dyes.

Completed