

Polyhydroxy Compounds

1.

08/01/2022

Lecture-1

Deg-I Hons.

Paper-II, Group-B, Chapter-3

Session : 2021-2024

* The compounds which contain more than one -OH group are known as polyhydroxy compound or polyhydric alcohol.

They are further classified according to No. of -OH group present in the molecule.

* The compound containing two -OH group :-

Dihydric alcohols

* The compound containing three -OH group :-

Trihydric alcohol.

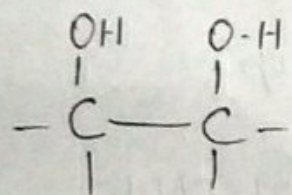
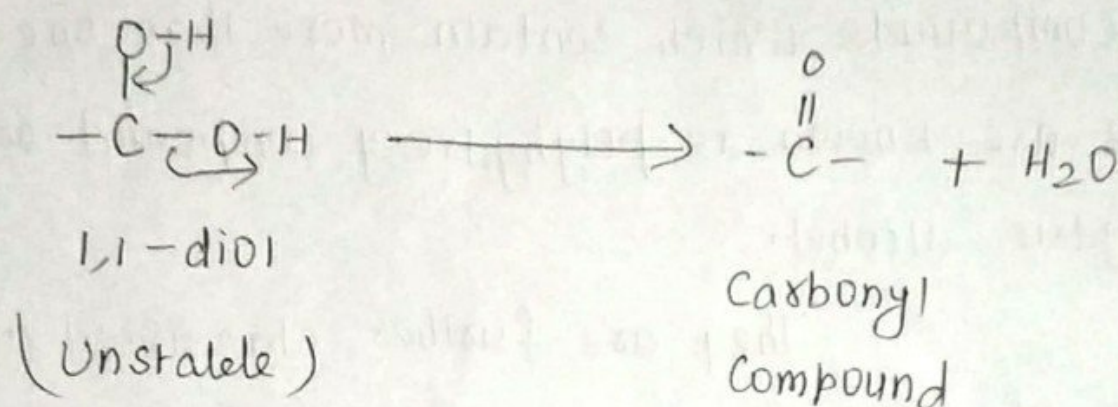
DIHYDRIC ALCOHOLS (DIOLS)

* The IUPAC name of dihydric alcohols is diols, while their older 'common name' is Glycols.

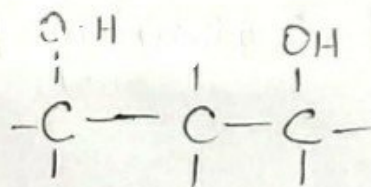
(Greek, glycos = sweet), since they have a sweet taste.

2.

The diols having the $-OH$ group bonded to the same carbon are unstable and undergo spontaneous decomposition to yield a carbonyl compound (aldehyde or ketone) or ketone).



1,2-diol
(Stable)



1,3-diol
(Stable)

Continues....
