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 Assignment

1a) Based on the number of hydrogen atoms attached to the carbon atom containing the hydroxyl group. If the number of hydrogen atoms attached to the carbon atom bearing hydroxyl group are 3 or 2, it is called a primary alcohol (1°). If it is one hydrogen atom, it is called secondary alcohol (2°) and if no hydrogen atom ~~is attached~~ ^{is attached} to the carbon atom bearing the hydroxyl group, it is called a tertiary alcohol (3°)

Example: (i) CH_3OH : Methanol (1°)

(ii) $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3$ Propan-2-ol (2°)

b) Based on the number of hydroxyl group they possess.

Monohydric alcohol have one hydroxyl group present in the alcohol structure. Dihydric alcohol are also called Glycols; have two

hydroxyl group present in the alcohol structure while trihydric or trisols have 3 hydroxyl groups ~~group present in the alcohol~~ present in the structure of the

alcohol. Polyhydric alcohols or polyols have more than three hydroxyl groups. Example: (i) $\text{Et}_3\text{CH}_2\text{CH}_2\text{OH}$ (Propanol)

[monohydric] (ii) $\text{HOCH}_2\text{CH}_2\text{OH}$ (Ethane-1,2-diol)
 [dihydric alcohol]



