

- i) $C_6H_5(COH)HCHO$
- ii) $-OH$ (Alcohols), $-CHO$ (Aldehyde)
- iii) $C_6H_5CH(NH_2)COCH_3$
- iv) $-NH_2$ (Amines), $-O-$ (Ethers)
- v) $C_6H_5C=CHCH(OH)CHO$
- vi) $-OH$ (Alcohols), $-CHO$ (Aldehyde)

2) Observed rotation

Concentration in $g/cm^3 \times$ path length of sample cell in dm
 Observed rotation = 1.0°

Concentration = $0.0886 g/cm^3$
 Path length = $1 dm$

$$\alpha = \frac{1}{0.0886 \times 1}$$

$$\alpha = 11.2878^\circ g^{-1} cm^3 dm^{-1}$$

