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Stereochemistry and functional groups.

1. CH2=C(OH)HCHO – Alkene (double bond =)

 Alkanol (OH)

 Aldehyde (CHO)

C6H5CH(NH2)COCH3 – Amine (NH2)

 Ketone (C0)

 Phenyl group (C6H5)

CH3C=CHCH(OH)CHO – Alkene (double bond =)

 Alkanol(OH)

 Aldehyde (CHO)

1. Recall [α]Tλ = α

 c.l

where l= path length in dm

 c= concentration; mass/volume

 α= observed rotation in degree

Sr= 1.0

1. x (0.856/10)

 Sr = 1/0.0856 = 11.68

1. i. Hexa-2,4-diene – there are three geometric isomers

(2E, 4Z)

(2E,4Z)

 (2Z, 4Z)

ii. 2,3-Dimethylbut-2-ene – has no geometric isomer

 CH3 CH3

 C = C

CH3 CH3