NAME; LOHO SOLOMON

MATRIC NUMBER; 19/ENG06/034

DEPARTMENT; MECHANICAL ENGINEERING

ASSIGNMENT ON STEREOCHEMISTRY

1. CH2=C(OH)HCHO;

It contains the following functional groups;

1. Alkene which is denoted by the presence of a double bond(-C=C-)
2. Aldehyde which is confirmed by the presence of -CHO
3. Alcohol which is confirmed by -OH

C6H5CH(NH2)COCH3;

It contains the following functional groups;

1. Amine shown by -NH2
2. Ketone shown by -C=O
3. Phenyl group shown by (C6H5)

CH3C=CHCH(OH)CHO;

It contains the following functional groups;

1. Alkene shown by the presence of a double bond(-C=C-)
2. Alcohol which is confirmed by –OH
3. Aldehyde which is confirmed by –CHO
4. Given that; [α]λT= α where; c= 0.0856g/cm3; l= 1.0dm; α= +1.00

c.l

[α]λT= 1

(1\*0.0856)

[α]λT = 11.680

1. i. Hexa-2,4-diene
2. (2E,4E)-hexa-2,4-diene

1. (2E,4Z)-hexa-2,4-diene

1. (2Z, 4Z)-hexa-2,4-diene