Assignment 2

Due on 2020.06.29, 23:59 HKT

1. The constitution of glucose is the identification reaction with phenol in the acid medium is ( )
   a. 2 molecules of benzene
   b. 1 molecule of benzene
   c. 2 molecules of benzoic acid
   d. 1 molecule of benzoic acid

2. Consider the following reaction (structure is given)
   a. a two-electron and one-electron addition through C=C double bond
   b. a free radical and two-electron addition through C=C double bond
   c. a free radical and one-electron addition through C=C double bond
   d. a two-electron and one-electron addition through C=C double bond

3. [Image of a chemical structure]
   a. a free radical and one-electron addition through C=C double bond
   b. a two-electron and one-electron addition through C=C double bond
   c. a free radical and two-electron addition through C=C double bond
   d. a two-electron and one-electron addition through C=C double bond

4. The free radical addition reaction of the alkene system (2) and 3 is to form two types of functional groups that are not easily identified in the following product of type-
   a. ether
   b. ester
   c. alcohol
   d. none of the above

5. [Image of a chemical structure]
   a. a free radical and one-electron addition through C=C double bond
   b. a two-electron and one-electron addition through C=C double bond
   c. a free radical and two-electron addition through C=C double bond
   d. a two-electron and one-electron addition through C=C double bond

6. The free radical addition reaction of the alkene system (3) and 4 is to form two types of functional groups that are not easily identified in the following product of type-
   a. ether
   b. ester
   c. alcohol
   d. none of the above

7. The free radical addition reaction of the alkene system (4) and 5 is to form two types of functional groups that are not easily identified in the following product of type-
   a. ether
   b. ester
   c. alcohol
   d. none of the above

8. The free radical addition reaction of the alkene system (5) and 6 is to form two types of functional groups that are not easily identified in the following product of type-
   a. ether
   b. ester
   c. alcohol
   d. none of the above

9. The weight of the following species when the ratio of conversion is 99%

10. The concentration of the following species when the ratio of conversion is 99%

11. The reaction degree of the reaction is a

12. The reaction degree of the reaction is b

13. The reaction degree of the reaction is c

14. The reaction degree of the reaction is d

15. The reaction degree of the reaction is e

16. The reaction degree of the reaction is f

17. The reaction degree of the reaction is g

18. The reaction degree of the reaction is h

19. The reaction degree of the reaction is i

20. The reaction degree of the reaction is j

21. The reaction degree of the reaction is k

22. The reaction degree of the reaction is l

23. The reaction degree of the reaction is m

24. The reaction degree of the reaction is n

25. The reaction degree of the reaction is o

26. The reaction degree of the reaction is p

27. The reaction degree of the reaction is q

28. The reaction degree of the reaction is r

29. The reaction degree of the reaction is s

30. The reaction degree of the reaction is t

31. The reaction degree of the reaction is u

32. The reaction degree of the reaction is v

33. The reaction degree of the reaction is w

34. The reaction degree of the reaction is x

35. The reaction degree of the reaction is y

36. The reaction degree of the reaction is z