

Exam questions on discipline

“Functionally Substituted Phenolic Compounds”

1. General information on functionally substituted phenolic compounds.
2. Methods for obtaining phenol.
3. Obtaining phenol from cumole.
4. Fries rearrangement of alkenylphenol esters.
5. Production and applications of aminomethyl derivatives of phenolic compounds.
6. Synthesis of unsaturated phenol-formaldehyde oligomers.
7. Homo - and copolymerization of vinyl phenols.
8. Multiple bond addition reactions of alkenylphenols.
9. Preparing and chemical transformations of alkenylphenol esters.
10. Sulfur and nitrogen containing additives.
11. Reactions of homolytic thiilation of alkenylphenols.
12. Obtaining methods of ethers of vinyl and isopropenylphenols.
13. Obtaining oligomeric and polymeric stabilizers based on alkenylphenols.
14. Obtaining sulfur-containing functional substituted phenolic compounds.
15. Obtaining glycidyl and allyl ethers of alkenylphenols.
16. Polyfunctional oligomers.
17. Co-oligomers of PIPh as hardeners of epoxy resins.
18. Kleisen rearrangement of alkenylphenol ethers.
19. Co-oligomerization of PIF esters with styrene.
20. Obtaining high molecular weight polymers based on alkenylphenols.
21. Obtaining vinyl and isopropenylphenols.
22. Obtaining propenyl and allyl phenols.
23. Chemical transformations of alkenylphenol ethers.
24. Reactions of homolytic phosphorylation of alkenylphenols.
25. Reactions of the radical copolymerization of alkenylphenols.
26. Copolymerization of PIPh with various monomers.
27. Obtaining nitrogen-containing functionally substituted phenolic compounds.

28. Obtaining and chemical transformations of phenol esters.
29. Dimerization and oligomerization of alkenylphenols.
30. Epoxidation of co-oligomers of PIPh and 2-alkyl-4-isopropenylphenol with epichlorohydrine.
31. Reactions of the radical polymerization of alkenylphenols.
32. Obtaining functionally substituted compounds based on alkenylphenols and their application area.
33. Chemical transformations of alkenylphenol esters.
34. Obtaining ethers of alkenylphenols.
35. Phosphorus and nitrogen containing additives.