

SYNTHESIS OF AROMATIC ACETYLENE ALCOHOLS AND THEIR VINYL ETHERS BY VARIOUS METHODS

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ABSTRACT

Investigation of synthesis of aromatic acetylenic alcohols with high yields with using of different method at using of phenylacetylene (PhA) over some aldehydes and ketones in the presence of different catalysts, carrying out of chemical and structural analysis's and on the base of chemical theories and laws the scientific basing of effectivity of aromatic acetylenic alcohols synthesis by different methods. Determination of regularities of carrying out of reaction of aromatic acetylenic alcohols and vinyl ester and influence at this temperature, duration of reaction, nature of catalysts and solvents, initial concentration of reagents, their molar ratios and nature; determination of kinetics and mechanisms on the base of theoretical regulative and physic-chemical properties. Using of quantitative- chemical calculations with using of modern computer programs and on base of practical data. Investigation of energy- and resource-saving, economically effective, paying, ecologically pure technology of aromatic acetylenic alcohols and vinyl ester production.

Keywords: PhA, aldehydes, ketones, alcohols, vinyl esters, catalysts, solvents.