



Transformations of Allyl-Substituted and Aryl-Allyl Esters and Their Corresponding Amines

Levashova, Gennady Zaikov

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The book generally shows the interrelation between allyl unit structure of the initial ester and composition and structure of its products. The first part studies the pathways of chemical regrouping in chlorallylaryl and bisarylallyl esters using quantum-chemical calculations. Energy parameters, structural features and electron structure of intermediates and transition states are also discussed. Simple and regioselective methods for compound synthesis inaccessible in other production techniques are developed. For the first time, new four- and eight-term nitrogen-containing heterocyclic compounds were produced by aniline alkenylation technique. In 0.05% aqueous solution these compounds displayed 100% activity in suppression of sulfate-reducing bacterium growth. Two new classes of complex action preparations designed for the oil production rate increase were obtained by heterocyclic amine alkenylation. Production methods for N-alkenyl ammonium salts derived from hexamethylene tetramine are developed and introduced into production, and compounds are used on oil fields.

In the second part production methods of new mono-, di-, tri- and tetra-tert-butyl hexamethylene tetramine chlorides are discussed. These compounds fully suppress sulfate-reducing bacterium growth already in 200 – 500 mg/l concentration. A universal technology deriving bactericides and sulfide corrosion inhibitors for metals from methallyl chloride is developed. It also gives a method for organochlorine waste and methallyl chloride production wastewater management, safe for the environment.

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