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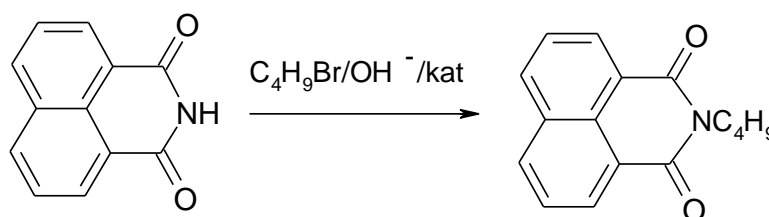
**Synthesis of N-Alkyl naphthalimides Derivatives in Interphase Conditions and their Research**Vitaly Distanov, Boris Uspensky, Yuri Lipisa, Tatiana Falaleeva,  
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Phase-transfer catalysis are used in various fields of organic synthesis as a method for obtaining of many important substances. It is also often introduced in industry due to the simplicity of the process, undemanding characteristics with respect to solvents and reagents.

Substances, stated below, can be used as catalysts in phase-transfer catalysis: kraunether, quaternary ammonium salts and so on. Type of the solvent also influence on the behavior of reaction significantly. Benzene and toluene are used in many cases in the capacity of solvents.

Phase-transfer catalysis did not used for synthesis of naphthalimide derivatives before. These derivatives can be used for various purposes, namely as fluorescent components of daytime fluorescent pigments with different applications, as components of defectoscopic materials, analytical reagents for series of elements test, as fluorescent probes for medicobiological investigations etc.

Proposed method of obtaining naphthalic acid alkyl derivatives can lead to the synthesis of essential products with given properties as follows:



On the assumption of use in scientific research such catalysts as PEG-9 and podandes, which based on quaternary salts, product yields in some degree higher than using kraunethers. Substitution of TEBAH to PEG-9 did not effect significantly on the yield of final product, last-named is more accepted in industry and thought the instrumentality of it we can substitute TEBAH in a romp.

This paper reports about substitution of classical solvents, most of which are classified as precursors, to more accepted solvents in terms of their ecological compatibility.