

IAF MATERIALS AND STRUCTURES SYMPOSIUM (C2)
Space Structures I - Development and Verification (Space Vehicles and Components) (1)

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SYNTHESIS OF DICARBOXYLATE DERIVATIVES WITH ANTIMICROBIAL PROPERTIES

Abstract

Currently, targeted research is underway around the world in order to replace antibiotics, and even more so for the use of organic substances as preservatives with biological activity for use in space when feeding and storing food for astronauts. Organic chemistry presents the possibility of a one-stage synthesis of complex molecules without isolation of intermediate compounds, the consumption of reagents and solvents for synthesis. The created dicarboxylates have good solubility in organic solvents and can be used as synthons for further synthesis. As a result, various isomers and derivatives of thiazolyl-indazole heterocyclic systems were obtained. Synthesized derivatives can be used as part of composite materials to provide antimicrobial properties and as preservatives.