

UNIVERSITY OF NAPOLI "FEDERICO II"

POLYTECHNIC AND SCIENCE SCHOOL

Department of Chemical Sciences

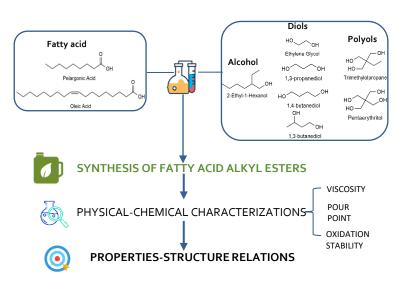
Ph.D. School in Chemical Sciences (37 Cycle)



First year activity

Table of contents

- 1. Synthesis of fatty acid alkyl esters by using different fatty acids and alcohols.
- 2. Physical-chemical characterization of the products.
- 3. Study of the existing propertiesstructure relations.
- 4. Evaluation of the direct use of the synthetized esters as potential bio-lubricant depending on the required performances, in terms of viscosity, pour point and oxidation stability, for a specific application.



Ph.D. Student

Michele Emanuele Fortunato

Title

Bio-lubricants derived from waste vegetable oils





