

## **Synthesis and structural interpretation of 4-(alkoxy) benzoic acid derivatives as an important intermediate materials**

### **ABSTRACT**

A series of benzoic acid derivatives were synthesized via alkylation reaction of methyl-4-hydroxybenzoate with 1-bromononane and 1-bromotetradecane to form 4-(nonyloxy)benzoic acid and 4-(tetradecyloxy)benzoic acid respectively. These two compounds were heavily subjected to spectroscopic analysis which are Fourier Transform–Infra Red spectroscopy (FTIR) and Nuclear Magnetic Resonance (NMR).