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(57) Abstract :

The present invention relates to the synthesis, characterization, and analysis of a novel brominated phenolic derivative with potential biological activity. The compound was obtained in 77% yield with a melting point of 78 °C and an R_f value of 0.51 using n-hexane:ethyl acetate (1:1) as the mobile phase. Structural confirmation was carried out through elemental analysis, IR, and NMR studies. The IR spectrum exhibited peaks corresponding to OH stretching, aromatic C–H stretching, and bending vibrations, while ¹H NMR spectra confirmed the presence of aromatic protons, hydroxyl, methyl, and methylene groups. Mass spectrometry results further validated the molecular weight and isotopic distribution pattern of the compound (m/z 306, 308). The synthesized compound demonstrates a well-defined chemical structure (C₁₅H₁₅BrO₂, MW 307), suitable for future exploration of its pharmacological potential.

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