SWALLOW-TAILED, HIGHLY SOLUBLE DERIVATIVES OF NAPHTHALENE AND INVESTIGATION OF THEIR PHOTOPHYSICAL PARAMETERS

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Renewed interest is being shown naphthalimide derivatives, including biological (local anaesthetics\(^1\), DNA-cleaving agents \(^2\), tumoricidals \(^3\), and non-biological (optical brighteners, Lucifer dyes \(^4\) applications).

In this study, we have aimed at synthesizing highly soluble derivatives of naphthalene diimide/monoimide. Molecular structures were identified by using IR, \(^1\)H NMR, \(^13\)C NMR spectrophotometer. Also their thermal stabilities and photophysical parameters were determined. The structure of synthesized molecules are presented below.

![Synthesized Molecular Structures](image)

**Figure 1. Synthesized Molecular Structures**

**References**