

## Estimation of boiling points of PP degradation products and its relevance to NP-gram method

Katsuhide Murata<sup>1</sup>, Mihai Brebu<sup>2\*</sup>

<sup>1</sup>Toyohashi Chamber of Commerce and Industry, Japan

<sup>2</sup>Petru Poni Institute of Macromolecular Chemistry, Romania

E-mail: [bmihai@icmpp.ro](mailto:bmihai@icmpp.ro);

### Abstract

*Usually more than 400 peaks are found on chart of gas-chromatography using a capillary column, when we analyze the liquid product derived from the thermal degradation of polypropylene. Since it seems difficult to identify those peaks one by one, the author formerly devised NP-gram as a characterization method for it. And then the author has shown NP-gram to be applicable to the thermal degradation products of various polymers, petroleum products and coal derived oils. In the present study the author shows the boiling point estimation of a series of products from polypropylene and the preparation method of NP-gram in detail for the benefit of its understanding.*