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Roberto García, Consuelo Pizarro, Antonio G. Lavín, Julio L. Bueno

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Biomass Proximate Analysis using Thermogravimetry

Roberto García, Consuelo Pizarro(*), Antonio G. Lavín, Julio L. Bueno

Department of Chemical Engineering and Environmental Technology, Faculty of Chemistry, University of Oviedo. Julián Clavería 8, 33006, Oviedo, Spain

ABSTRACT

This work proposes a 25 minutes-last thermogravimetric method as a tool to determine biomass sample's proximate analysis data (moisture, ash, volatile matter and fixed carbon contents) just by direct measure of weight changes on each sample's TG chart. Compared with international standards commonly used to that aim, TG is a faster and easier to develop technique. Obtained results were satisfactory, with AEE under 6% for moisture and volatile matter, close to 10% for fixed carbon determination and AAD of 1.6 points for ash content.

Key words

Biomass, proximate analysis, thermogravimetry

* Representing Author: Tel +0034 985 103438; Fax +0034 985 103434

E-mail address: pizarroconsuelo@uniovi.es (C. Pizarro)

E-mail addresses: garciafroberto@uniovi.es (Roberto García),

pizarroconsuelo@uniovi.es (Consuelo Pizarro), agl@uniovi.es (Antonio G. Lavín),

jlbueno@uniovi.es (Julio L. Bueno)

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