

Special Seminar

“A Continuous-Flow for Extraction and Colorimetric Analysis of Ethanol in Gasohol Fuels”

by

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Abstract

This work presents a continuous-flow system for quantitative analysis of ethanol in gasohol. The flow system provided the following multifunctions, i.e., (i) extraction of ethanol from gasohol, (ii) mixing the extracted ethanol with reagent, (iii) separation of gasohol from the photometric absorbing product and (iv) removal of bubbles from the colorimetric detection. Linear calibration ($r^2 = 0.999$) was obtained from 0 to 20 % (v/v) of ethanol in gasoline. Analysis time was 6 min/sample.

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