

Development of the method of analysis of aromatic hydrocarbons benzene series by gas chromatography-mass spectrometry the example of ozonated raw benzene

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Abstract

The method of chromatographic analysis of the component composition of ozonated raw benzene have been presented in this paper. The conditions of the chromatographic analysis were selected as: column, the heating temperature of column and of the evaporator, the carrier gas and its flow rate. A linear dependence of the total ion current detector mass to concentration of the major components of the raw benzene were revealed in a concentration range of 10-250 ng/μl. The possibility of using this method for the analysis of ozonated raw and raw benzene was shown in the whole range of concentrations.