

Gas Chromatographic Determination of Butyl Acrylate and Butyl Methacrylate in Model Media

T.M. Jumagazyeva¹, Aktobe Branch of RSE «Kazakhstan Institute of Standardization and Metrology», t.dzhumagazyeva@ksm.kz

V.G. Lysenko², Research Center for Applied Metrology — Rostest, ValeriyGL@rostest.ru

¹ Aktobe, Republic of Kazakhstan

² Moscow, Russia

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key words

chemical analysis, measurement procedure, validation, certified mixture, sampling, calibration characteristics

The purpose of the study is to provide testing laboratories of the member countries of the Customs Union with a procedure for measuring butyl acrylate and butyl methacrylate in model media using the gas chromatographic method.

The objective of the study is to develop a methodology for the preparation of certified mixtures of butyl acrylate and butyl methacrylate in order to establish the values of the metrological characteristics of the measurement procedure.

The developed methodology includes the selection of measuring instruments, uncertainty calculation, preparation of calibration solutions and accuracy assessment. The possibility of using the developed mixtures for calibration, validation of measurement procedure and ensuring the traceability of analytical measurements in the field of chemical analysis is substantiated.

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