Comparative study on the mass density relative distribution in aerodispersed systems of limited volume and liquids

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Abstract

A comparison between the relative distribution of the *mass density* aerosol phase *of aerodispersed systems of limited volume (aerosols of high concentration) and the relative distribution of the densities of some liquids was made in this work. The array of data used for the aerosols, was obtained in an experimental setup based on laser light scattering. The data used for the liquids was taken from the reference literature. The collected data for the aerosols are approximated with Gaussian distributions and presented graphically. The applied statistical analysis showed good similarity between the relative distribution of mass densities of the studied aerodispersed systems and that of the taken liquids.*

Keywords: *aerodispersed systems, aerosols, mass density aerosol phase, probability distribution*

Acknowledgments. This work contains results, which are supported by the UNWE project for scientific researches with grant agreement No. NID NI - 17-2021