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DETERMINATION OF AEROSOLS POLLUTANTS ON MEMBRANES. EVALUATION OF PARTICLE COLLECTION EFFICIENCY AND LEAD CONCENTRATION IN AEROSOLS

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Abstract

This work presents experimental data on determination of lead and solids suspension in aerosols by microfiltration technique on previously prepared polymer membranes, in the study area North Station-Polizu Bucharest. Measurements of pollutants sample (particulates and lead) in the area of Bucharest (Polizu) showed an average concentration exceeding acceptable limits for Pb and powders. Membranes prepared can be used for the determination of pollutants in aerosols. The best performances were obtained using PEEK membranes and then the composite membranes PSf / PANI.

Key words: dust, lead, membrane separation, polyetheretherketone, polysulfone

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