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IDENTIFICATION OF BOTTLED NATURAL WATERS BY USING DIRECT CONDUCTOMETRY

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Abstract

Speedy, inexpensive, simple and environmentally friendly procedure for identification of waters on the basis of conductometric method is described. A new generalized parameter is proposed to define the chemical composition of mineral waters. It is an identification coefficient (Kld) measured as the tangent of slope angle for the dependence of the inverse conductivity on the degree of diluting investigated water by distilled water. Procedure of determination (Kld) has been worked out and tested in the identification of bottled drinking waters from more than 15 countries. Relative standard deviation (Sr) of determining Kld is less than 5%.