Title (en)

ENERGY DISPERSION X-RAY FLUORESCENCE ANALYSIS OF CHEMICAL SUBSTANCES

Title (de)

ENERGIEDISPERSIVE RÖNTGENFLUORESZENZANALYSE VON CHEMISCHEN SUBSTANZEN

Title (fr)

ANALYSE PAR FLUORESCENCE X A DISPERSION D'ENERGIE DE SUBSTANCE CHIMIQUE

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Application

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Abstract (en)

[origin: US6496562B1] The invention relates to a method for classifying and identifying by means of energy dispersion X-ray fluorescence analysis chemical substances whose X-ray fluorescence lines cannot be detected and which therefore cannot be classified by energy dispersion X-ray fluorescence analysis alone. Said method is characterized in that the sample to be analyzed is analyzed in its original packaging or natural state without prior processing in a sample vessel. According to the method the sample is: a) positioned in front of the measuring aperture in a sample chamber of an X-ray fluorescence apparatus; b) measured; and c) classified and identified by application of multivariate, statistical techniques to the measurement signals obtained, i.e., to the Compton and Rayleigh scattering.

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