

APPLICATION OF ION CHROMATOGRAPHY AND ENERGY DISPERSIVE X-RAY
FLUORESCENCE SPECTROMETRY FOR EXAMINATION OF CHEMICAL
COMPOSITION OF MINERAL FERTILIZERS

RAJMUND MICHALSKI, ALEKSANDRA ŁYKO, SEBASTIAN SZOPA

Abstract: Product quality tests require accurate and precise analytical techniques. Fertilizers belong to a group of products whose chemical composition is of great importance due to health, environmental and economic reasons. The following paper presents the results of the research into the content of selected substances in several mineral fertilizers manufactured in Poland. Ion chromatography (IC) was employed to determine selected inorganic anions and cations, whereas energy dispersive X-ray fluorescence spectrometry (EDXRF) was used to determine the content of selected elements.