Assessment of Trace Element Content in Products and Wastes of Coal Treatments from the Upper-Silesian Basin – Krystyna Srogi, Mariusz Minkina

Summary

The aim of the study was to estimate the content of trace elements: zinc, cadmium, lead, molybdenum and nickel in products and wastes of coal treatment from Upper-Silesian Basin. Two analytical methods were applied: atomic absorption spectrometry (FAAS, ETAAS) and anodic (ASV) and adsorptive stripping voltammetry (AdSV). ASV is used to determine zinc, cadmium and lead; AdSV molybdenum and nickel, and FAAS and ETAAS to determine all elements. In the case of Zn, Ni, Mo, Pb and Cd determined by FAAS (ETAAS) the concentrations were practically the same as those obtained by ASV or AdSV.