

عنوان مقاله:

Solid phase extraction of trace Cu(II) using Ammonium Pyrrolidine Dithiocarbamate(APDC) modified Multi walled carbon nanotubes (MWCNTs) to Determination by FAAS

محل انتشار:

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نویسندگان:

Azam Shakeri - Department of Chemistry, Varamin(Pishva)Branch Islamic Azad University, Varamin, Iran

Ali Moghimi - Department of Chemistry, Varamin(Pishva)Branch Islamic Azad University, Varamin, Iran

Nazanin Farhadyar - Department of Chemistry, Varamin(Pishva)Branch Islamic Azad University, Varamin, Iran

خلاصه مقاله:

In this method to amounting of the trace amount of Cu (II) ions in aqueous Samples by CNT Amin, Amino-pyrrolidine dthiocarbamate (APDC) which in order to improve the performance of extraction and preconcentration was used. Amounting of the ions density in solution was performed by the method of flame atomic absorption spectrometry. The effective parameters on extraction such as: effect of pH, the amount and eluent solvent, time of extraction and effect of other cation were optimized. Concentrate factor was found 57 and LOD method of limit of detection was found to 0.06 $\mu\text{g.L}^{-1}$. the relative standard deviation is 0.76% (RSD).

کلمات کلیدی:

Copper(II), Preconcentration, Amino-pyrrolidine dthiocarbamate (APDC), Solid phase extraction, Multi walled carbon (nanotubes (SWCNTs). Flame atomic adsorption spectrometry (FAAS

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