ABSTRACT

Determination of lead metal can be done using APDC chelation-extraction technic, that follow with analysis AAS. Lead metal can form chelation with chelating agent APDC, namely formed complex compound Pb(PDC)₂ that have no-colour. This chelat transfered to organic phase in MIBK solvent. Organic phase that contain complex compound were analyzed with AAS. The value of optimum pH for this extraction is pH 3. Extraction eficiency remained ≥90% (high efficiencies) for APDC:Pb mmol ratio of ≥600, for concentratin Pb(II) 0,100-0,750 ppm and ≥ 900 for concentration Pb(II) 1,000 ppm.