

Synthesis, transport, and ionophore properties of α,ω -biphosphorylated azapodands: VIII. Solvent extraction of the metal ions with N,N'-bis(dioctylphosphorylmethyl)-1,8-diamino-3,6-dioxaoctane

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Abstract

Liquid extraction from the aqueous solutions of perchloric acid with neutral azapodand extractant N,N'-bis(dioctylphosphorylmethyl)-1,8-diamino-3,6-dioxaoctane has been highly efficient in the cases of uranyl ions and some metals of groups II and III. To estimate the synergic effect of organophosphorus extractants, the neutral extractant was applied in the mixture with an acidic component, bis(pentadecyl)phosphoric acid. The synergic effect has exclusively been observed in the extraction of zinc and cadmium ions. © 2013 Pleiades Publishing, Ltd.

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