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Original Articles

Selective Extraction and Separation of Titanium(IV) from Multivalent Metal Chloride Solutions Using 2-Ethylhexyl Phosphonic Acid Mono-2-ethylhexyl Ester

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Abstract

The extraction behavior of titanium(IV) from hydrochloric acid solutions was investigated using 2-ethylhexyl phosphonic acid mono-2-ethylhexyl ester (EHEHPA=HX) in kerosene as an extractant. The results demonstrate that the extraction of

titanium

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where extra the aqu complex extraction

efficiency varies in the order: chloroform<benzene~toluene<xylene<kerosene. IR

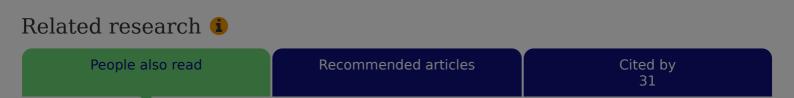
spectral studies of the extracted complex were used to further clarify the nature of extracted complex. The separation possibilities of titanium(IV) from other associated multivalent metal ions, that is, magnesium(II), aluminum(III), vanadium(V), chromium(III), manganese(II), and iron(III), which are associated with titanium in the waste chloride liquors of titanium minerals processing industry was discussed.

Q Keywords: Selective extraction Separation Titanium(IV)

2-Ethylhexyl phosphonic acid mono-2-ethylhexyl ester Multivalent metal chlorides Titania wastes

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