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## 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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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.

Keywords:

Selective extraction

Separation

Titanium(IV)

2-Ethylhexyl phosphonic acid mono-2-ethylhexyl ester

Multivalent metal chlorides

Titania wastes

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