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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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Pages 427-441 | Received 01 Jan 2002, Published online: 15 Feb 2007

Cite this article <https://doi.org/10.1081/SS-120016583>

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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.

Keywords: Selective extraction Separation Titanium(IV)
2-Ethylhexyl phosphonic acid mono-2-ethylhexyl ester Multivalent metal chlorides Titania wastes

Acknowledgments

One of the authors, JS would like to thank CSIR, New Delhi, for the award of senior research fellowship.

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