

The Chemistry of Protactinium. IX : A Study of the Solvent Extraction of Protactinium (V) from a Perchloric Acid Solution Using Di (2-ethylhexyl) phosphoric Acid as the Extractant

著者	MITSUGASHIRA Toshiaki
journal or publication title	Science reports of the Research Institutes, Tohoku University. Ser. A, Physics, chemistry and metallurgy
volume	24
page range	135-135
year	1972
URL	http://hdl.handle.net/10097/27653

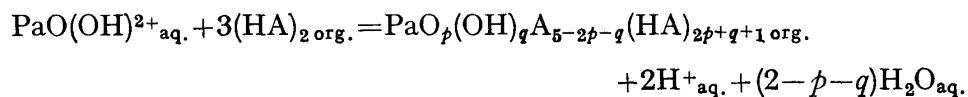
The Chemistry of Protactinium. IX. A Study of the Solvent
Extraction of Protactinium(V) from a Perchloric Acid
Solution Using Di(2-ethylhexyl)phosphoric Acid
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Toshiaki MITSUGASHIRA

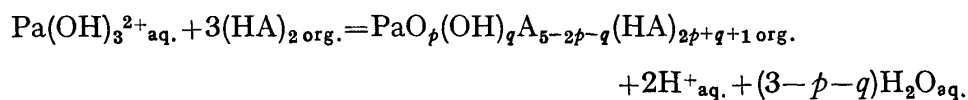
The Research Institute for Iron, Steel and Other Metals

Abstract

Studies of the chemical behavior of protactinium(V) in a perchloric acid solution were carried out by the HDEHP-benzene extraction method. When the protactinium concentration was lower than $10^{-7}M$, the extraction reaction was considered to proceed as:



where $p=1, q=0$ or 1 , and $p=2, q=0$
and



where $p=0, q=0, 1, 2$, or 3 ; $p=1, q=0$ or 1 and $p=2, q=0$.

* The 1572th report of the Research Institute for Iron, Steel and Other Metals. Published in the Bulletin of the Chemical Society of Japan, **44** (1971), 1305.