

二正辛基亚砷与TBP协萃铀的研究

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收稿日期 1985-5-21 修回日期 网络版发布日期:

摘要 <正> 亚砷萃取铀、钚、钍、镅及裂片元素已进行过研究。本文研究亚砷和TBP对铀的协同萃取。关于亚砷的协萃效应许多人已进行过研究,结果表明,亚砷不仅与不同类型的萃取剂具有协同作用,而且两种不同亚砷混合时也存在协同效应。Svbramanian

关键词 [铀](#) [DOSO](#) [TBP](#) [协萃](#)

分类号

SYNERGETIC EXTRACTION OF URANYL NITRATE BY TRIBUTYL PHOSPHATE(TBP) AND Di-n-OCTYL SUFOXIDE(DOSO)

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Abstract In this paper the synergetic extraction of uranyl nitrate from nitric acid mediawith TBP-DOSO-CCl₄ is studied. The formation of a synergic extracted complexUO₂(NO₃)₂·TBP·DOSO is confirmed by the usual slope method. It is found thatmaximum synergetic extraction effect occurs when the molar ratio of TBP toDOSO is 1:2. The effects of the total extractant concentration, the concentration of nitricacid, and temperature on the distribution ratio (D_M) of uranium are studied. Ata given strength of the extractant, the extraction of uranyl nitrate first increasesrapidly with the increase of acid concentration while at high acidity, above 6mol/lHNO₃, the extraction decreases. The D_M increases with the increase of extractantconcentration and decreases with the elevation of temperature. The effects observed in the synergetic extraction system are similar to thosereported for the single extractant system. However, the D_M in the synergetic system is higher than the sum of D's separately obtained from the two correspondingextractants.

Key words [Uranium](#) [DOSO](#) [TBP](#) [Synergetic extraction](#)

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