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## DHDECMP-TBP/煤油萃取模拟高放废液中的裂片元素工艺研究

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摘要 实验测定了22%DHDECMP 42%TBP OK从模拟高放废液中萃取Zr、Mo、Cs等裂片元素的分配比,并在微型离心萃取器(转鼓 10mm)串联台架上进行了从模拟高放废液中萃取裂片元素的工艺研究。采用6级萃取,2级洗涤,6级反萃,流比AF:AX:AS=1:1.5:0.5,BF:BX=1:1,实验考察了裂片元素的各级浓度分布。对Zr、Mo的净化系数DF分别为3.2、18;对Rb、Cs、Sr、Ba,DF>103。

 关键词
 DHDECMP-TBP/OK
 裂片元素
 模拟高放废液
 离心萃取器

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Technology Study on the Extraction of Fission Products Fr om Simulated High-lev el Liquid Waste by Mixture of DHD ECMP and TBP in Kerosene

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**Abstract** The distribution ratios of fission products, such a s Zr, Mo, Cs etc. are measured base d on the single stage extraction experiments of simulated high—level liquid waste with 22% DHDE CMP—42% TBP/OK. The extraction b ehavior of the fission products in simulated high—level liquid waste is determined on miniature countercurrent centrifugal contactor cascade (6 stages for extraction, 2 stages for scrubbing, 6 stages for stripping, AF: AX: AS=—1:1.5:0.5—;BF: BX=1:1). The experimental results show that in 1A extraction section, the recovery of RE's (except for Y) is greater than 99.9%, while Rb, Cs, Sr and Ba are nearly not extracted, the decontamination factor (DF) for Zr, Mo is 3.2, 18, respectively and is more than 3×10—2 for Ru and In.

**Key words** <u>DHDECMP-TBP/OK</u> <u>fission products</u> <u>simulated high-l evel liquid waste</u> <u>miniat</u> <u>ure centrifugal contactor</u>

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