TBP萃淋树脂色层分离、分光光度法测定八氧化三铀中微量针

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摘要 <正>一、前言 测定大量铀中微量钍,主要采用溶剂萃取法或离子交换法预先除去大量铀,然后用分光光度法测定钍。溶剂萃取法分离铀很难分离干净,铀的干扰严重。离子交换法分离铀费时较长。因此我们采用萃取色层法分离。根据钍与铀在TBP-盐酸介质中分配系

关键词 <u>八氧化三铀</u> <u>色层分离</u> <u>分光光度法</u> <u>钍</u>

分类号

DETERMINATION OF TRACE Th IN U_3O_8 BY USING THE CHROMATOGRAPHY OF TBP-LEVEXTREL AND SPECTROPH OTOMETRY

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Abstract In this paper a spectrophotometry using arsenazo III is used to determine traceTh in U $_3O_8$. The sample of U $_3O_8$, is dissolved in HNO $_3$ and then turned into HClmedium. Urani um is absorbed in TBP-levextrel at 1:1 HC1 medium and thoriumis eluted by 1:1 HCl. The absorbtion obeies the Beer law when the content of Th is in the range of 0.125--1.25 μ g/10 ml. If the uranium quantity of the U $_3O_8$ sample is 250 mg andthe content of Th is 1 ppm., the precision is \pm 6% and the recovery is 98%. The detected limit is 0.5 ppm six samples can be performed within eight hours for one operator.

Key words <u>U_3O_8</u> <u>Chromatographic separation</u> <u>Spectrophotometric method</u> <u>Th</u>

扩展功能

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