

CL-5209萃淋树脂分离铀、二安替比林甲烷光度法测定八氧化三铀中微量钛

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摘要 文章介绍了用CL-5209萃淋树脂分离铀、二安替比林甲烷光度法测定八氧化三铀中微量钛的方法研究。该法选择性高、形成的络合物稳定性好。方法的相对标准偏差为±3%,回收率为100~104%。在含0~20μg钛的范围内,服从朗伯-比耳定律。

关键词 [萃淋树脂](#) [铀氧化物](#) [光度法](#) [钛](#)

分类号

CL-5209 SOLVENT-CONTAINING RESIN PRESEPARATION AND SPECTROPHOTOMETRIC DETERMINATION OF MICROAMOUNT OF TITANIUM IN URANIUM OXIDE

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Abstract In the paper a spectrophotometric method for determination of microamount of titanium in uranium oxide with diantipyrylmethane is described. The titanium is pre-separated from uranium using CL-5209 solvent-containing resin. The complex formed is very stable. Beer's law is obeyed over the range 0--20 μg Ti/25ml. The recovery of this method is 100~104% and the relative standard deviation is ±3%. This method is simple, rapid and selective, and it is now used as a routine method for titanium determination in uranium oxide.

Key words [Solvent-containing resin](#) [Uranium oxide](#) [Spectrophotometry](#) [Titanium](#)

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