

在氯化十六烷基吡啶 (CPC) 存在下用对硝基偶氮氯膦光度测定微量钍

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摘要 <正> 对硝基偶氮氯膦[2-(4-氯-2-膦酸基苯偶氮)-7-(4-硝基苯偶氮)-1,8-二羟基-2,6-萘二磺酸]结构式为:

关键词 [光度分析](#) [钍](#) [对硝基偶氮氯膦](#) [氯化十六烷基吡啶](#)

分类号

SPECTROPHOTOMETRIC DETERMINATION OF MICRO-AMOUNTS OF THORIUM WITH CPA-p-NO₂ IN THE PRESENCE OF CPC

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Abstract A molar absorptivity of $1.65\text{--}1.85 \times 10^5 \text{ l} \cdot \text{mole}^{-1} \cdot \text{cm}^{-1}$ can be obtained with chlorophosphonazo-p-NO₂ (CPApN) as the color-forming reagent in cetylpyridinium chloride (CPC) in the determination of micro-amount of Th in grains. Beer's law is obeyed in the range of 0--8 μg Th in 25 ml solution. A deviation of less than 5% is observed for 23 interfering ions studied, some of which, however, need the addition of masking agents such as citric acid.

Key words [Spectrophotometric analysis](#) [Thorium](#) [CPA-p-NO₂](#) [Cetyl pyridinium chloride](#)

DOI

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