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摘要：本工作采用 ^1H NMR和 ^{31}P NMR结合的方法对工业样品中二硫代磷酸二异丁酯、硫代磷酸二异丁酯、硫代磷酸异丁酯和异丁醇进行表征和定量测量，并对测试的精度和数据的可靠性进行分析。结果表明：所建立的方法可以满足工业生产中质量控制的要求。

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NMR analysis of industrial samples of thiophosphates

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Abstract: In this work, industrial samples were analyzed with NMR. With combining application of ^1H NMR and ^{31}P NMR, the components of diisobutyl dithiophosphate, diisobutyl thiophosphate, isobutyl thiophosphate and isobutanol were confirmed, and quantitatively determined. The method was evaluated for the experimental precision and accuracy as well. The results show that this method could satisfy with requirement of the quantitative determination of this products.

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