

质谱在石油化工、环境保护、产品质量等领域中的应用

顶空-GC/MS法测定漆包线中残留二甲基环硅氧烷

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摘要

关键词

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Determination of Dimethylcyclsiloxane in Enameled Wires by Headspace-GC/MS

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Abstract A headspace-GC/MS method for the determination of dimethylcyclsiloxane in enameled wires was developed. The dimethylcyclsiloxane such as hexamethylcyclotrisiloxane, octamethylcyclotetrasiloxane, decamethylcyclopentasiloxane and dodecamethylcyclohexasiloxane were studied. The quality and the quantity analysis were done at the same time. Under the optimum separation condition, the four dimethylcyclsiloxane were separated very well. The recovery varies from 90.7% to 94.4%, the RSD of results varies from 7.90% to 9.42%, and the detection limit is all at the level of $10^{-8}(\omega)$. The method is simple, rapid, sensitive and accurate.

Key words [headspace-GC/MS](#) _ [enameled](#) [wires](#) _ [dimethylcyclsiloxan](#)

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