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摘要：介绍一种磁化率定性分析装置，该装置可直接定性分析单组分大分子和同分异构体样品。利用不同分子的磁化率、磁导率、磁滞等磁谱特性不同的特点，将被测样品置于磁场中，通过测量和记录样品所产生附加磁场的互感电动势变化，可以对被测样品作定性分析。分析过程对样品没有破坏性，具有操作简单、直观、不受质量范围限制的优点。

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[Principle and construction of a qualitative analysis apparatus based on electromagnetically...](#)

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Abstract: A novel qualitative analysis apparatus based on electromagnetically induced susceptibility has been designed and its principle and construction are described. The apparatus can perform qualitative analysis of the samples composed of single component macromolecules or isomers directly. The differences of different molecules in magnetic susceptibility, magnetic permeability and magnetic hysteresis are used as basic principles of qualitative analysis. The sample is placed in a magnetic field and the intensity of the induced electromotive force produced by the additional magnetic field of sample is recorded. The analytical process is nondestructive and the method has the advantages of easy to operate and free of mass range limitation.

Key words:

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