

技术与应用

反相高效液相色谱法测定双酚芬

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摘要 建立了采用反相高效液相色谱对合成双酚芬含量的测定方法:采用迪马反相C18烷基柱,以甲醇和水为流动相,比例是85%15%:,流速为1.000ml/min,采用UVD170紫外检测器在230nm处进行检测。双酚芬质量浓度在5mg/L~25mg/L时线性关系良好,线性相关系数为 $r=0.9996$,平均回收率为99.77%,相对标准偏差为0.14%。实验表明,在选定的条件下对双酚芬合成实验产物及最终产品进行分析的方法简单快速、准确可靠,得到了满意的结果。

关键词 [反相高效液相色谱](#) [双酚芬](#)

分类号

Determination of 9,9-Bis(4-hydroxyphenyl)-fluorene by Reverse-Phase High Performance Liquid Chromatography

Abstract

A simple and quick method has been developed for the determination of 9,9-bis(4-hydroxyphenyl)-fluorene by reverse-phase high performance liquid chromatography on a Dikma C18 column(250mm×4.6 mm i.d.,5μm) with UVD170U detection. The UV-detector was set at 230nm and the mobile phase was methanol-water(85/15,V/V) at a flow rate of 1ml/min. The calibration curve of 9,9-bis(4-hydroxyphenyl)-fluorene was linear in the range of 5mg/L~25mg/L($r=0.9996$). The average recovery was 99.77%,RSD was 0.14%. The experiment indicated that this method was simple,rapid and exact. The result was satisfying.

Key words [reverse-phase high performance liquid chromatography](#) [9,9-bis\(4-hydroxyphenyl\)-fluorene](#)

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