

[加熱炉型熱分解装置を用いた発生ガス分析における選択的試料導入装置の開発](#)

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Abstract:

A novel selective sampling device was proposed for an evolved gas analysis (EGA) method using a temperature programmable pyrolyzer with a GC detector such as mass spectrometer. The new method is based on the indirect flow switching technique free of a direct mechanical valve utilized for conventional EGA systems. This sampling device enabled the selective sample introduction of any desired temperature ranges for the products observed in EGA to the associated detection system. From the observed data for several polar compounds by the measuring system equipped with this sampling device, it was confirmed that the system had little dead volume and less active inner surface. Furthermore, it was demonstrated that the selective introduction of evolved products was successfully applied for the characterization of a complex formulated polymeric material.

\* 出版社サイトからの抜粋 (タイトルをクリック)

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