

质谱在石油化工、环境保护、产品质量等领域中的应用

城市大气环境中多环芳烃的季节变化和气固分配

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摘要

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Seasonal Concentrations and Partitioning of PAHs in a Urban Site

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Abstract Concentrations of polycyclic aromatic hydrocarbons(PAHs) in gas phase and particle phase were determined by GC/MS, and seasonal gas-particle partitioning of PAHs was examined by correlating the partitioning coefficient(K_p) with the sub-cooled vapor pressures(P_L). Results show that concentrations of PAHs in gas phase are higher than that in particle, and the variation in slopes according to air mass origin is insignificant for summer and winter samples, which indicate that meteorological condition may play an important role in the partitioning of PAHs.

Key words [atmosphere](#) _ [PAHs](#) _ [gas/particle](#) _ [partition](#) _ [GC/MS](#)

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