

عنوان مقاله:

Determination of Permethrin Assay by GC method

محل انتشار:

همایش منطقه ای شیمی (سال: 1389)

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خلاصه مقاله:

Permethrin is a common synthetic chemical [1], widely used as an insecticide, acaricide, and fungicide. It belongs to the family of synthetic chemicals called pyrethroids and functions by affecting neuron membranes by prolonging sodium channel activation. It is not deadly harm most mammals or birds, but is highly toxic to fish and cats. It generally has a low toxicity and is poorly absorbed by skin. Permethrin has recently been used on dogs as a flea/tick repellent. Permethrin content was determined by HPLC method [2] but we decided to determine by GC method because this method is inexpensive and popular. This group performed the determination of Bioallethrin assay [3] and Cypermethrin assay [4] by GC method. Permethrin is dissolved in 4-methylpentan-2-one containing n-octacosane as standard. The permethrin, isolated as two isomer peaks, is determined by comparison with standard solutions.

کلمات کلیدی:

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