عنوان مقاله:

Esterification and transesterification of inedible olive oil for biodiesel production

محل انتشار:

ششمین کنفرانس سالیانه انرژی یاک (سال: 1397)

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خلاصه مقاله:

In the present study a two-step acid-catalyzed esterification and alkaline-catalyzed transesterification process using microwave heating method was compared with conventional heating method. Free fatty acid was reduced to less than 2.0% in the first step. Comparing microwave alkaline-catalyzed transesterification results with those of the conventional heating method showed that microwave can significantly increase methyl ester yield and purity, and .simultaneously decrease reaction time

کلمات کلیدی: Esterification, Transesterification, Olive oil, Biodiesel

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