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(57) Abstract :
The development of an integrated method for the production of biodiesel from oleaginous seeds, especially castor bean seeds, is reported. The novel technique involves a transesterification reaction in which the seeds themselves react with anhydrous ethyl alcohol in the presence of an alkaline catalyst, which is described in detail below. The resultant ethyl esters are separated by decantation and neutralized before being utilized as fuel for diesel engines, co-solvents for diesel and gasoline mixes including anhydrous or hydrated ethyl alcohol, or as a solvent for a variety of industrial applications. The solid fractions may be used as fertilizers, for cattle feed, and as a raw material in the production of ethyl alcohol, among other things.

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