A Review on Chemical Properties of Biodiesel from Sorghum Oils

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Abstract: Biodiesel is getting to be distinctly conspicuous among the other options to traditional petro-diesel because of monetary, ecological and social variables. There has been incredible mindfulness in the region of the advancement of biodiesel particularly in the creating nations amid the current time. Noteworthy research exercises have been performed for its creation and new advancement. Biodiesels can be the fuel without bounds as it gives a choice of sparing, eco-accommodating, elective renewable vitality source. In the present examination sorghum bicolor seed oil and its methyl ester have been discovered their appropriateness as petro-diesel.

In the Present review the trial examination has been made to discover the chemical properties of sorghum oil. Research facility scale amounts of sorghum oil biodiesel were created through transesterification response utilizing 100 g sorghum oil, 17% methanol (wt% sorghum oil), 1.0% sodium hydroxide impetus at 80°C in 100 minutes. The examinations were triplicate and normal outcomes were assessed. The acquired biodiesel was described as an option diesel fuel through arrangement of ASTM and European association (EN 14214) standard fuel tests. The transesterification procedure yielded 95.8% sorghum oil biodiesel. The sorghum oil biodiesel had 88.8% lessening of thickness over its crude vegetable oil at 38°C. Comes about got were observed to be inside breaking points set by different International norms for biodiesel.

Keywords: Biodiesel, chemical properties, renewable fuel, transesterification.


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