

iSLICE: FISH OIL AS ECONOMICALLY SUITABLE FEED STOCK FOR BIODIESEL

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Abstract

We need to accept the price of diesel is quite lower than the biodiesel in most of the countries. This statement is a fact beyond doubt if you deduct the tax applied on the petroleum diesel. There are few advantages of the biodiesel. Like lowest possible sulfur and highest possible CETANE value. But that can be overlooked by a common man at the time of purchase. This is what drives the diesel so crazy and same is what happened in India before. The feed stock selection and purchase become very crucial. We have few options left for economic biodiesel production. We have to consider and try for some out of the box solutions for biodiesel feed stock. The non-edible oils are many. And these oils have many purposes. Few years back, PFAD (Palm Fatty acid distillate) was a better option. The reaction is also very simple. It is acid catalysed esterification reaction with methanol. The fish oil is odorous. Hence it is not used in soap or cosmetics. Even it is not used to produce the greases. Saying that, Fish oil is very expensive due to its omega oil component. One can isolate the omega fraction and then rest of oil is very economical. The omega oils can be isolated by fractional distillation after the esterification. The Esterified Omega oil can fetch handsome revenue to make rest of FAME (Fatty Acid Methyl Ester) very economic. We have to create this awareness and progress to keep the biodiesel as first choice of common man on the basis of price. We must understand and accept at once, the economy or price is the only drive for a customer. Environment remains the secondary priority for anyone when it comes to spending.

Biography:

Mahesh Pagnis is an eternal student of chemistry and nature. He is fond of nature, that gives him the drive to search and contemplate to get the doors to brain - walls. Working in fuels is like going to town fair and exploring the possibilities. Fuel is the currency of future he believed in. He is core researcher and grass root innovator. He has reinvented many things and filed patent. He always believes in doing. He is an entrepreneur, researcher, evaluator, great thinker and follower of Swami Vivekanand and Ramkrishna Paramhans.

Citation: Dr. Pradip Lingfa : Biofuel a Secure and Clean Energy Future; Webinar on Biofuel; may 29, 2021