

Determination of Derived Cetane Number (DCN) of various biodiesel and blended biodiesel using Ignition Quality Tester (IQT)

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There is an increasing worldwide concern for environmental protection and for conservation of non-renewable natural resources. Day by day fossil fuel resources deplete due to rapidly increasing population and industrialization all around the world. For this reason, Biodiesel is a notable renewable fuel instead of petrodiesel due to reduce greenhouse gas (CO<sub>2</sub>), sulfur, particulates, and nation energy security. Cetane number is a significant character of diesel fuel due to relate with engine performance and fuel efficiency. Our research group was focus on determinate the derived cetane number of various biodiesel and blended biodiesel using ignition quality tester(IQT).