

# Renewable Diesel Sustainability Information Sheet

## Product Description:

Renewable Diesel is a drop-in fuel compatible with current storage tanks and diesel engines with no modifications needed. It can be blended with petroleum diesel or replace it altogether. Renewable Diesel meets the same specification (ASTM D975) as petroleum-based diesel and is made in a similar manner to refined petroleum products, typically through hydrotreating. The difference is it comes from a wide range of fats, plant oils and waste products from the food and restaurant industries instead of crude oil.

## Product Category:

Diesel Fuel (ASTM D975).

## Lifecycle Analysis:

Conducted by U.S. Environmental Protection Agency (EPA) it is a well-to-wheel analysis that includes feedstock production and transportation, fuel production and distribution, and use of the finished fuel (tailpipe emissions including carbon dioxide, methane, and nitrous oxide, based on the estimated average emissions for the United States vehicle fleet) and co-products.

- **Range:** PER EPA ANALYSIS, minimum 50% reduction in lifecycle greenhouse gas emissions relative to baseline diesel (described below) and up to 78% depending on feedstock inputs.

RFS Program Approved Feedstocks for Renewable Diesel	
Source: Table 1 to § 80.1426	<i>Feedstock</i>
	Soybean oil; Oil from annual cover crops; Oil from algae grown photosynthetically; Biogenic waste oils/fats/greases; Camelina sativa oil; Distillers corn oil; Commingled distillers corn oil and sorghum oil
	Canola/Rapeseed oil
	The non-cellulosic portions of separated food waste and non-cellulosic components of annual cover crops

## Baseline Diesel:

97 kg CO<sub>2</sub>e/mmBtu .

1. <https://www.epa.gov/renewable-fuel-standard-program/lifecycle-analysis-greenhouse-gas-emissions-under-renewable-fuel>
2. <https://www.epa.gov/renewable-fuel-standard-program/approved-pathways-renewable-fuel>
3. <https://www.epa.gov/fuels-registration-reporting-and-compliance-help/lifecycle-greenhouse-gas-results>

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