



# Innovation Fuels' Products

## Innovation Fuels Biodiesel meets both EN 14214 and ASTM D6751 Specifications

### BIODIESEL QUALITY GUARANTEE – EUROPEAN SPECIFICATIONS

PROPERTY	TEST METHOD	SPECIFICATION	UNITS
Ester content	EN 14103	96.5 minimum	% mass
Flash Point	EN ISO 3675	120 minimum	°C
Methanol content	EN 14110	0.20 maximum	% mass
Water content	EN ISO 12937	500 maximum	mg/kg
Total contamination	EN 12662	24	mg/kg
Kinematic viscosity, 40°C	EN ISO 3104	3.5 – 5.0	mm <sup>2</sup> /s
Sulfated ash	ISO 3987	0.020 maximum	% mass
Sulfur	EN ISO 20846	10 maximum	mg/kg
Copper strip corrosion	EN ISO 2160	1 maximum	-
Cetane number	EN ISO 5165	51 minimum	-
Carbon residue (on 10% distillation residue)	EN ISO 10370	0.30 maximum	% mass
Acid value	EN 14104	0.50 maximum	mg KOH/g
Linolenic acid methyl ester	EN 14103	12 maximum	% mass
Fatty acid methyl esters (>=4 double bonds)	EN 14103	1 maximum	% mass
Monoglyceride content	EN 14105	0.80 maximum	% mass
Diglyceride content	EN 14105	0.20 maximum	% mass
Triglyceride content	EN 14105	0.20 maximum	% mass
Free glycerol	EN 14105	0.020 maximum	% mass
Total glycerol	EN 14105	0.250 maximum	% mass
Phosphorus	EN 14107	10 maximum	mg/kg
Distillation temperature, atmospheric equivalent temperature 90% recovered	EN D1160	360 maximum	°C
Sodium + Potassium	EN14108	5 maximum	mg/kg
Calcium + Magnesium	EN14538	5 maximum	mg/kg
Oxidation Stability	EN14112	7 minimum	hours



**Innovation Fuels™**

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\*Innovation Fuels can provide any percentage of biodiesel blend depending on your specific needs.



## About Innovation Fuels

# Biodiesel... GOOD FOR YOU, GOOD FOR YOUR BUSINESS, GOOD FOR THE WORLD ...Fuel for Today and Tomorrow

### Who is Innovation Fuels?

Innovation Fuels is a leading biodiesel company with a regional focus and global reach. We operate within the United States at strategic port locations that allow us to supply regional customers and a network of international partners. Our biodiesel is produced from a variety of virgin and used vegetable oils as well as tallows. We manufacture to the highest standards, and our biodiesel meets international specifications including EN 14214 and ASTM D6751. Our team of chemical and operational professionals can also supply premium biodiesel meeting customer specific requirements.

### Why choose Innovation Fuels?

Whether you're a private sector or government user in power generation, fuel oil distribution, construction, or transportation, Innovation Fuels has the expertise, experience, and capacity to meet your immediate and long-term needs. We are a full voting member of the National Biodiesel Board and an accredited member of the ASTM Society. By using innovative, proprietary production technology, Innovation Fuels biodiesel is the highest quality at the lowest cost to you.

Taking care of our customers is our number one business priority. We pride ourselves on our ability to connect with and provide innovative solutions to our customers. Our goal is to help you choose biodiesel as a viable, sustainable, high-performance fuel. Let us put our extensive experience in the fuel industry to work for you.

### Why choose Innovation Fuels Biodiesel?

Biodiesel is the fastest growing alternative fuel. It's clean and non-toxic so it's good for you. It's high-quality and easy to integrate into your operation so it's good for your business. And it's biodegradable and renewable so it's good for the world. Biodiesel contains no petroleum but it can be blended at any level with petroleum diesel and works in any diesel engine.

### Innovation Fuels biodiesel has the following benefits:

- High cetane (average over 50)
- Ultra low sulfur (average ~2 ppm)
- Low agriculture inputs (soybeans)
- 78 percent life cycle CO<sub>2</sub> reduction
- High lubricity, even in blends as low as one to two percent
- Renewable, sustainable
- Domestically produced
- Reduces NO<sub>x</sub> in boilers and home heating
- Biodiesel tax incentive benefits
- Reduces HC, PM, CO in existing diesel engines



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