

BIOFUELS BLEND COMPARISON DATA

The following comparison data was done by independent laboratories for the Wilks InfraCal Biodiesel Blend Analyzer, the InfraCal Ethanol Blend Analyzer and the InfraSpec VFA-IR Spectrometer. These rugged, portable, easy-to-use analyzers provide measurement data in less than one minute —ideal for on-site use in laboratories, production facilities or distribution centers.



COMPARISON OF THE INFRACAL ETHANOL BLEND ANALYZER TO AN OXYGENATE FLAME IONIZATION DETECTOR

Ethanol O-FID Vol%	InfraCal Ethanol Blend Analyzer
9.87	9.9
9.89	9.8
9.84	9.8
9.97	10.1
9.70	9.5
10.48	10.5



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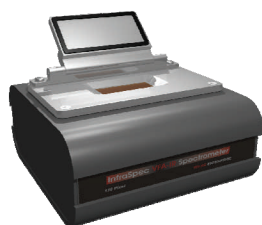
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COMPARISON OF THE INFRASPEC VFA-IR SPECTROMETER TO ASTM 7371 METHOD



The InfraSpec VFA-IR Spectrometer performed as well or better than the laboratories performing the ASTM 7371 method measurements using FTIR on known volumetrically mixed standards.

Biodiesel Feedstock	Measured % FAME				
	% FAME in Diesel	Method 7371 lab 1	Method 7371 lab 2	Method 7371 lab 3	InfraSpec VFA-IR Spectrometer
Canola Oil	2.0	1.1	1.8	2.2	2.4
	4.0	3.0, 2.8	3.5, 3.7	4.0, 4.0	4.4, 4.3
	10.0	8.4	9.2	9.7	10.1
	20.0	17.3	19.8	18.0	19.5
Soy Oil	2.0	1.2	2.0	2.1	2.4
	5.0	3.9, 3.8	4.7, 4.8	5.0, 5.0	5.4, 5.4
	10.0	8.5	10.1	9.6	10.2
White Grease	18.0	16.3	18.3	16.3	17.8
	2.0	1.2	2.1	2.2	2.3
	5.0	3.9, 3.8	4.8, 4.8	5.2, 5.2	5.5, 5.4
	12.0	10.5	12.3	10.6	12.4
	20.0	17.6	20.2	18.5	20.5

COMPARISON OF THE INFRACAL BIODIESEL (FAME) BLEND ANALYZER AND INFRASPEC VFA-IR SPECTROMETER TO EN 14078 AND ASTM 7371 OXYGENATE FLAME IONIZATION DETECTOR

Sample ID	EN 14078 Nicolet iS10	ASTM D7371 Nicolet iS10	Wilks InfraCal Biodiesel Blend	InfraSpec VFA-IR Spectrometer
1.0 STD	1.1	1.15	1.3	1.4
105-001	0.3	0	0.3	0.25
105-002	0.3	0	0.2	0.17
105-003	0.2	0	0.2	0.22
105-004	0.3	0	0.2	0.2
105-005	0.2	0	0.2	0.16
105-006	0.4	0	0.5	0.44
105-007	0.3	0	0.4	0.37
105-008	0.3	0	0.3	0.34
105-009	0.2	0	0.3	0.25
5.02 STD	5	4.99	5	5.12
30.0 STD	30.2	30.07	30	30.11
50.0 STD	50	50.06	50.4	50.6

