

## BIODIESEL

EN 14103, 14105, 14106 & 14110

AC Biodiesel

All IN ONE solution complies with biodiesel specification EN 14214 to determine the quality of FAME additives in diesel. Includes a set of calibration components, complete testing and on-site installation.



## DISTILLATION

EN ISO 3405

OptiDist™

New benchmark in distillation testing offers highest precision and easy of use ever seen. Enables truly "one button" straightforward operation by automatically setting optimal distillation conditions for any sample through unique heating optimizer technology.

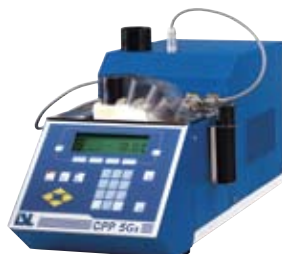


## CLOUD & POUR POINT

EN ISO 23015

ISL CPP 5Gs

Powerful, self contained cooling system enables easy, accurate testing for ultra-low temperature pour and/or cloud points below -90°C.



## CETANE NUMBER & BIODIESEL

CORRELATION TO EN ISO 5165

TD PPA

Highly accurate mid-IR spectroscopic analysis is ideal for field, lab or refinery use. Supplies quick, cost-effective diesel composition and property determinations. Eliminates prep time and operator bias with three minute testing using only 10mL of sample, no sample prep and no special training.



# BIOFUELS ANALYSIS

Your Single Source for Biodiesel Quality Testing in Compliance with

# EN 590 & EN 14214

At PAC, we are committed to developing and manufacturing instrumentation to assist in meeting environmental protection mandates. We support and encourage the use of clean burning fuels and renewable resources.

### EFFICIENCY

Our instrumentation speed and smaller sample sizes increase test efficiency and productivity while generating less waste.

### SIMPLICITY

We manufacture automated and user-friendly instruments, requiring little to no operator training or oversight, allowing maximum flexibility, precision and convenience.

### SAFETY

All of our analyzers and detectors are designed to meet the highest, most rigorous safety standards and requirements in the industry. Many feature new technological advances ensuring a greater level of safety.

### VERSATILITY

Compact and portable; easily moving throughout your lab or refinery and into the field, our diverse catalog of solutions have virtually limitless options and operational adaptability.

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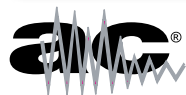
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# PAC BIODIESEL APPLICATIONS ASSISTANCE CHART

APPLICATION	TEST METHOD	B5 5% Biodiesel Blend	B100 100% Biodiesel (FAME)
Ester Content	EN 14103	Applicated GC; TD PPA	
Boiling Range Distribution	ISO 3924	AC SIMDIS ISO 3924; AC Fast SIMDIS; AC 8634™	
Carbon Residue (10%)	EN ISO 10370	MCRT 160	
Cetane Index	correlation to EN ISO 4264	TD PPA	
Cetane Number	correlation to EN ISO 5165	TD PPA	
		Cetane ID 510	
Cloud Point	EN ISO 23015	CPP 5Gs; HCP 852; MPP 5Gs; PSPI 42701	
Cold Filter Plugging Point	EN 116	FPP 5Gs; HCP 842; PSPI 42902	
Distillation Atmospheric	EN ISO 3405	OptiDist™; PMD 110	
Distillation Vacuum	ASTM D 1160		HDV 632; PSPI 41464
Fatty Acid Profile	EN 14103		AC Biodiesel
Flashpoint	EN ISO 2719	HFP 339; HFP 360; HFP 370; FP93 5G2; PSPI 45607; AC SIMDIS	
Free and Total Glycerin	EN 14105		AC Biodiesel
Mono-, di-, tri-glycerides	EN 14106		
Lubricity	ISO 12156-1	HFRR	
Methanol Content	EN 14110		AC Biodiesel
PAH's	EN 12916	Applicated HPLC; TD PPA	Applicated HPLC
Sulfur Content	EN ISO 20846	9000LLS; 9000S; 6000S; 6200S; AC Sulfur SIMDIS	
Viscosity 40°C	EN ISO 3104	TVB 445; HVM 472; HVU 481; PSPI 44860	



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