



Fast

The QTA[®] System for Biodiesel

What is QTA[®]?

The QTA[®] (Quality Trait Analysis) System is a service providing rapid, on-site analysis and data management. We combine highly advanced Infra-Red instrumentation with a quick and easy user interface, enabling anyone to perform many analyses on a single sample within two minutes usually with no sample preparation.



When customers contract with Cognis Corporation, the QTA[®] System is placed at their facility where they analyze their B100, glycerine, incoming oil, or in-process samples. The instrument communicates over the internet with the QTA[®] System's central processor, where the analysis process and calibrations are continuously managed. The central processor calculates the results, returns them to the user, and stores the data for future retrieval.

What can QTA[®] measure?

QTA[®] System: Biodiesel Capabilities

	Method	Range	Std. error		Method	Range	Std. error
B100 (NA)				Methanol			
Free Glycerin, %	ASTM D6584	0 – 0.03	0.0035	Moisture, %	KF Moisture	0 – 20	0.5
Total Glycerin, %	ASTM D6584	0 – 0.50	0.03	B100 (EN)			
Cloud Point, deg C	ASTM D2500	-6 – 12	2	Ester, %	EN14103	93 – 100	0.45
Acid Number, mg KOH/g	ASTM D664	0 – 1	0.08	Iodine Value	AOCS Cd 1b-87	46 – 135	1.1
Moisture, %	ASTM D6304	0 – 0.1	0.007	Density, Kg/m ³	ASTM D4052/D1217	876 – 890	0.5
Methanol, %	EN141110	0 – 3	0.06	Viscosity, mm ² /sec	ASTM D445	4 – 5.3	0.1
In-Process				CFPP, deg C	ASTM D6371	-8 – 11	1
Monoglycerides, %	ASTM D6584	0 – 3	0.11	Monoglycerides, %	ASTM D6584	0.1 – 0.9	0.06
Diglycerides, %	ASTM D6584	0 – 5	0.1	Diglycerides, %	ASTM D6584	0.1 – 0.55	0.04
Triglycerides, %	ASTM D6584	0 – 7.5	0.15	Triglycerides, %	ASTM D6584	0.1 – 0.24	0.03
Incoming Oil				Crude Glycerin			
FFA, %	AOCS Ca 5a-40	0 – 14	0.18	MeOH, %	GC/FID	0 – 20	0.28
Moisture, %	KF Moisture	0 – 0.65	0.044	Glycerin, %	AOCS Ea 6-94	64 – 99	0.9
				Ash, %	AOCS Ea 2-38	0 – 8.5	0.37
				Moisture, %	AOCS Ea 8-58	0.5 – 6.5	0.38

How quickly can QTA[®] be implemented?

From start to finish the process takes as little as four weeks. Upon contracting with Cognis Corporation, customers submit a minimum of eight samples of each material to analyze from their normal production that are used to validate the QTA[®] calibrations for your process. Upon completion, they can begin using the QTA[®] system for their daily analyses.

Learn more at www.qta.com or call 1-866-yourQTA.



Cognis Corporation is providing the QTA[®] System only to registered users who have entered into a separate Material Analysis Agreement or Information Store User Agreement with Cognis Corporation. All use of the QTA[®] System shall be subject to and in accordance with such agreements and to the website terms and conditions; all access to and use of the QTA[®] System constitutes acceptance thereof.

Cognis makes no representation that the QTA[®] System may be used or relied upon as part of a BQ-9000 Quality Assurance Program. QTA[®] System testing may not be recognized as verification that the specified requirements of ASTM D 6751 have been fulfilled or that fuel tested using the QTA[®] System may be marketed with reference to BQ-9000 certification. Neither Cognis nor the QTA[®] System are affiliated with or are accredited by the ASTM or the National Biodiesel Accreditation Commission.



Easy



Accurate



Fast

Quality Testing in Two Minutes

Options:

- Set up an in-house lab, hire staff, maintain equipment, and comply with standards.
- Pay hundreds of dollars per sample to an outside lab. Wait days for results.
- Buy an NIR. Spend time and money building calibrations and maintaining equipment and training personnel, etc...
- Do unlimited analyses on-site, get results within two minutes, and test throughout the process.



Easy

Increase production yield up to 15%

Instantaneous results allow for more frequent testing, less product rework, and reduced down-time waiting for quality and process analyses.

The QTA® System's B100 Reduced Specification Portfolio:

- Methanol
- Water
- Free Glycerin
- Total Glycerin
- Cloud Point
- Acid Number

Reduce testing costs by up to 75%

Reducing the frequency of GC testing by using QTA® can dramatically reduce the cost of testing supplies and expensive lab technicians or chemists.

With the QTA® System, you pay an annual fee, and can analyze an unlimited number of samples of your biodiesel raw materials, process steps, and final products.

Meet and exceed biodiesel testing requirements

QTA®'s patented testing process allows you to exceed BQ-9000's testing frequency requirements. More and easier testing means better quality product.

Go ahead. Give us a call to discuss your analysis needs:

1-866-yourQTA
(1-866-968-7782)



Accurate



*Powerful Analytics...
made quick & easy!*

www.qta.com • 1-866-yourQTA • help@qta.com

