



# Biodiesel analytics and practical seminar

## How to understand biodiesel: From feedstock to certificate of analysis according to EN 14214

**Theoretical part:** AGQM, ASG, AT Agrar-Technik and XOS

**Practical part:** Production of biodiesel in the pilot scale plant with subsequent analysis according to EN 14214

**Target group:** Laboratory, marketing and plant managers and laboratory employees, preferably from the biodiesel, chemical or petrochemical industry, oil mills, commercial testing laboratories and similar facilities, dealing with questions of biodiesel analytics and quality management.

**Date:** **17. – 19. September 2024**  
Start: 17.09.2024 11:00 a.m.  
End: 19.09.2024 1:30 p.m.

**Venue:** ASG Analytik-Service AG  
Trentiner Ring 30  
86356 Neusaess, Germany



**Fee:** **2,440.00 Euro (plus VAT, if applicable)** (including meals, dinner, city tour and course material)

*In case of cancelling your registration by 19.08.2024 a processing fee of 100.00 € will be charged. Later, the complete participation fee will be charged. It is free of costs to name a substitute participant.*

**Certificate:** Each participant will receive a certificate of participation

**Participants:** 4-6 participants

*Please note that the seminar can only take place with a minimum of 4 participants.*

*Please note that in case of high demand for an event, the maximum number of participants per company is limited to 2 participants.*

**Registration:** <https://www.agqm-biodiesel.de/agqm-intensive-seminar>

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## **Biodiesel analytics and practical seminar**

*Please note that there may be changes to the program at short notice.*

### **Day 1: Tuesday**

Ca. 10:30 a.m.	Transfer from the <a href="#">ibis Hotel Augsburg Hauptbahnhof</a> to the ASG
Ab 10:45 a.m.	Arriving at ASG
11:00 – 11:15 a.m.	<b>Welcome and introduction of the participants and organizers</b>
11:15 – 12:15 p.m.	<b>Overview of the current use of biodiesel as well as EN 14214 (AGQM)</b>
12:15 – 1:00 p.m.	Lunch
1:00 – 3:30 p.m.	<b>Synthesis of biodiesel (theory) and on a pilot scale (ASG; AT Agrar-Technik)</b>
3:30 – 3:45 p.m.	Coffee break
3:45 – 4:30 p.m.	<b>New developments in biodiesel and fuel standardization (AGQM)</b>
Ca. 4:30 p.m.	Transfer from ASG to hotel
7:00 p.m.	Dinner

### **Day 2: Wednesday**

8:30 – 9:00 a.m.	Transfer from hotel to ASG
9:00 – 10:00 a.m.	<b>Monochromatic wavelength-dispersive X-ray fluorescence (sulphur and chlorine determination) (XOS)</b>
10:00 – 12:00 p.m.	<b>Analysis of self-produced biodiesel part 1 (ASG)</b> Metals, sulphur, and phosphorus content, oxidation stability, CP, CFPP, density, viscosity, flash point, acid number, water content and total contamination
12:00 – 12:45 p.m.	Lunch
12:45 – 2:15 p.m.	<b>Changes to EN 14103 and EN 14105 (ASG)</b>
2:15 – 2:30 p.m.	Coffee break

2:30 – 4:00 p.m.	<b>Analysis of self-produced biodiesel part 2</b> (ASG) Ester content, glycerides, methanol content, fatty acid profile, iodine value, PUFA
Ca. 4:00 p.m.	Transfer from ASG to Augsburg
5:00 – 7:00 p.m.	City tour of Augsburg
7:00 p.m.	Dinner

### **Day 3: Thursday**

8:30 – 9:00 a.m.	Transfer from hotel to ASG
9:00 – 10:30 a.m.	<b>Quality management and handling of analysis data</b> (ASG)
10:30 – 10:45 a.m.	Coffee break
10:45 – 11:45 a.m.	<b>Analysis of self-produced biodiesel part 3</b> (ASG) Evaluation of GC measurements
11:45 – 12:30 p.m.	<b>Evaluation of the analyses according to EN 14214</b> (ASG)
12:30 – 12:45 p.m.	<b>Questions and final discussion</b>
12:45 – 1:30 p.m.	Lunch
Ca. 1:30 p.m.	End of the seminar and transfer to Augsburg train station