



# AGQM Intensive Seminar

## How to understand Biodiesel: From Feedstock to Certificate of Analysis according to EN 14214

**Experts** Dr. Klaus Tröster (ASG), Dr. Klaus Redlich (ASG), Dr. Hendrik Stein (ASG), Dr. Franz Heinrichs, Maren Dietrich (AGQM)

**Target group** Laboratory, operational and marketing managers employed in the production of FAME, chemical or petrochemical industry, oil mills, commercial testing laboratory and similar facilities, dealing with questions of Biodiesel analytics and quality management

**Hands-on training** Synthesis of Biodiesel on pilot scale  
Analysis of Biodiesel according to parameters of EN 14214

**Date** **08 – 10 May 2019**  
Start: 08.05.2019, 2:00 p.m.  
End: 10.05.2019, 2:00 p.m.

**Venue** ASG Analytik Service GmbH  
Trentiner Ring 30  
86356 Neusaess, Germany



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**Fee** **1,990.00 € (plus VAT, if applicable)** (including meals and course material)  
*In case of cancelling your registration by 19.04.2019 a processing fee of 150.00 € 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** max. 6 participants;  
participants are registered in the order of applications coming in

**Contact** AGQM Biodiesel e.V.  
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## **AGQM Biodiesel Analytics Seminar**

### **1st Day: Wednesday, 08 May 2019**

- 14:00 – 14:15     **Welcome and introduction to the seminar**
- 14:15 – 16:30     **Synthesis of Biodiesel on a pilot scale**
- 16:30 – 17:30     **Industrial production of Biodiesel– (Dr. Franz Heinrichs)**
- 17:30                Transfer to the hotel
- 19:00                Dinner

### **2nd Day: Thursday, 09 May 2019**

- 09:00 – 09:15     Transfer from hotel to ASG
- 09:15 – 10:00     **Quality aspects of Biodiesel: Parameters of EN 14214, recent changes (Maren Dietrich, AGQM)**
- 10:00 – 13:00     **Analysis of Biodiesel according to EN 14214, Part 1**  
Ester content, glycerides, methanol content, fatty acid composition and iodine value, PUFA, oxidation stability
- 13:00 – 14:00     Lunch
- 14:00 – 15:00     **Analysis of Biodiesel according to EN 14214, Part 2**  
CFPP, cloud point, density, viscosity, flash point, acid number
- 15:00 – 15:15     Coffee break
- 15:15 – 17:00     **New developments in biodiesel and fuel standardization (Dr. Klaus Tröster, ASG)**
- 17:15                Transfer from ASG to Augsburg  
Guided two-hour tour through the city of Augsburg, home of the Fugger family
- 19:30                Dinner



### 3rd Day: Friday, 10 May 2019

- 09:00 – 09:15    Transfer from hotel to ASG
- 09:15 – 10:00    **Analysis of Biodiesel according to EN 14214, Part 3**  
Evaluation of GC results
- 10:00 – 11:00    **Analysis of Biodiesel according to EN 14214, Part 4**  
Metals, sulphur and phosphorous content, water content, total contamination
- 11:00 – 11:15    Coffee break
- 11:15 – 12:00    **Quality management dealing with analysis data**  
(Dr. Klaus Redlich, ASG)
- 12:00 – 13:00    **Questions from the participants and final discussion**
- 13:15 – 14:00    Lunch
- 14:00              End of the workshop