



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), 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 **28 – 30 April 2020**
Start: 28.04.2020, 2:00 p.m.
End: 30.04.2020, 2:00 p.m.

Venue ASG Analytik-Service GmbH
Trentiner Ring 30
86356 Neusaess, Germany
Tel. +49 (0) 8 21 / 486 25 18



Fee **1,990.00 € (plus VAT, if applicable)** (including meals and course material)
In case of cancelling your registration by 10.04.2020 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

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AGQM Biodiesel Analytics Seminar

1st Day: Tuesday, 28 April 2020

- 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. Hendrik Stein)**
- 17:30 Transfer to the hotel
- 19:00 Dinner

2nd Day: Wednesday, 29 April 2020

- 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: Thursday, 20 April 2020

- 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