



Institute for Mineral Oil Products and Environmental Analysis GmbH

Our Expertise

The I.M.U. GmbH, an independent chemical laboratory based in Klosterneuburg, is accredited according to EN ISO 17025, SCC-certified, and operates an inspection body accredited according to EN ISO 17020. With over thirty years of experience, we specialize in the fields of fuels, combustibles, and alternative fuels.

Our Service Offerings

In Austria, the quality of fuels and combustibles is regulated by various standards. However, practical issues often arise.

Black Sludge Formation and Emergency Generators

The storage of petroleum products is critical, as tanks are open systems and these products undergo aging. This can lead to black sludge formation (microbial contamination, also called "diesel pest") or condensation. Emergency generators are particularly problematic

since the fuel often remains stored for several years. We recommend an annual inspection of your storage tank.

Alternative "Raw Materials" in the Fuel Sector

In addition to fossil crude oil products, alternative raw materials are increasingly being used in the fuel sector:

- HVO (Hydrogenated Vegetable Oil)
- Pyrolysis oils
- Vegetable oils, fats, used cooking oils, or other waste oils, such as tall oil

Investigation of Technical Damages

We assist experts and insurance companies with our fuel expertise.

Accredited Sampling in Accordance with EN ISO 3170

We conduct fuel sampling at service stations or from fuel tanks as part of quality control measures or in case of fuel-related issues.



Simple Sample Transport/Logistics

We organize personal collection or freight transport for urgent analyses.

Our Analysis Services:

Petrol Fuels according to EN 228

Petrol is a mixture of hydrocarbons with boiling ranges between 30°C and 210°C, possibly containing oxygenated compounds like alcohols and ethers.

Diesel Fuels according to EN 590

Diesel fuels are hydrocarbon mixtures with boiling ranges between 180°C and 360°C. The biodiesel content in Austria is limited to 7%.

HVO according to EN 15940

HVO (Hydrogenated Vegetable Oil) is a hydrocarbon produced through catalytic hydrogenation of vegetable oils.

Ethanol according to EN 15376

Ethanol is used as a blending component for petrol fuels.

Biodiesel (FAME) according to EN 14214

Biodiesel, or Fatty Acid Methyl Esters (FAME), is produced by transesterification of vegetable oils or animal fats, including used cooking oils.

Extra-light heating oil (HEL) in accordance with ÖNORM C 1109 or other national standards

HEL is a hydrocarbon mixture with boiling ranges between 180°C and 360°C, dyed red in Austria and containing a marker substance.

Residual Heating Oils according to ÖNORM C 1108

Residual heating oils (light and heavy heating oils) are hydrocarbon mixtures containing fractions from the vacuum distillation of crude oils.

Contact:

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Behind the Scenes

Location Manager DI Dr. Christian Wiegel

Christian Wiegel, following comprehensive training in Vienna, has made a name for himself in the chemical industry with his progressive thinking and dedication to quality and customer service. From quality management to overseeing major laboratory projects, Mr. Wiegel has played a key role in the development and success of I.M.U.



NOX Reduction Agents according to ISO 22241-1

These are aqueous urea solutions for reducing nitrogen emissions, such as AdBlue.

Pyrolysis Oils

Pyrolysis oils are distillate fractions from the thermal decomposition of plastics or wood.

Glycerin

Glycerin is a byproduct of biodiesel production.

Our Laboratory

- + Approximately 600 m² of laboratory space
- + State-of-the-art equipment (GC-MS, ICP-OES, knock engine for determining knock resistance (octane number), and many more)

Our Team

- + 10 experienced employees with long-standing expertise
- + Focus on alternative fuels such as pyrolysis fuels, biofuels, and HVO
- + Supported by qualified sampling specialists (accredited sampling according to EN ISO 3170) in Austria and abroad

